User Manual iVMS-4200 Client Software

Version 1.02

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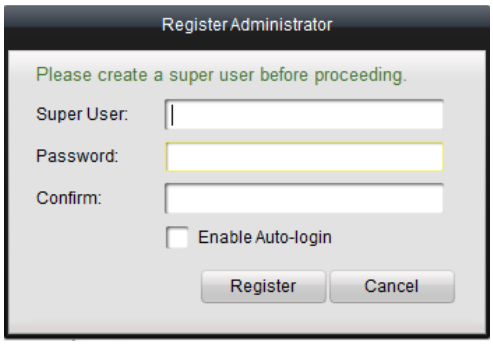
Chapter 1. Overview

iVMS-4200 is a video management software using a distributed structure to provide centralized management to all the connectable devices. It can manage the NVR, DVR, IP cameras, and compression cards. With different management and configuration modules and a reasonable collocation, it provides many solutions for different surveillance scenario with medium or small scale. It is a steady and reliable system with functions like real-time monitoring, video recording and searching, file backup, etc.
This user manual describes the function, configuration and operation steps of iVMS-4200 software. To ensure the properness of usage and stability of the software, please refer to the contents below and read the manual carefully before installation and operation.

Chapter 2. Starting iVMS-4200

2.1 User Registration

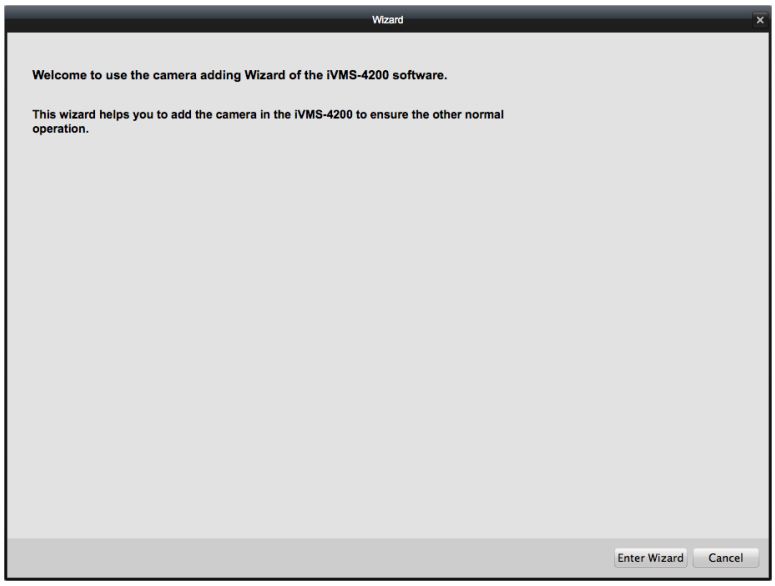
For the first time to use the iVMS-4200 software, you need to register a super user for login.



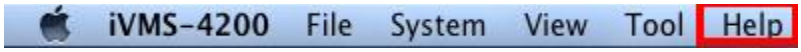
Enter the super user name, password and confirm the password in the dialog box and click **Register**. Then, you can log in as the super user.
Note: Enter, Space, and TAB keys are invalid for the user name and password. The password cannot be empty, and it should not be less than six characters and can't be copied and pasted.

2.2 Wizard for Importing Device

Purpose:
The main function of the iVMS-4200 is to manage network devices remotely. Thus the task on the top hierarchy is to register the device to the management list.
For the first time user, the wizard message box pops up to ask you whether you want to be guided for the basic operation of the client software.


Wizard
Welcome to use the camera adding Wizard of the iVMS-4200 software.
This wizard helps you to add the camera in the iVMS-4200 to ensure the other normal operation.
Enter Wizard
Cancel

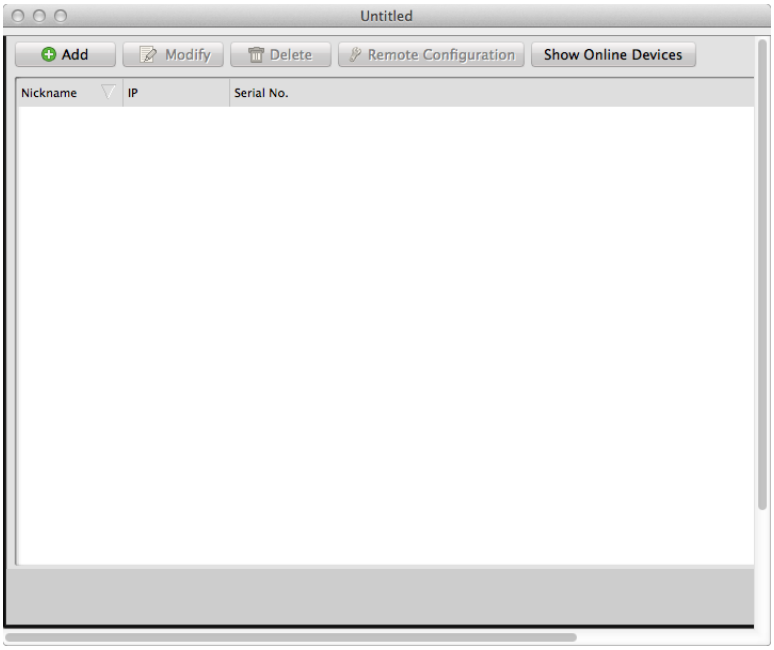
If this is not the first time you use the client software, the wizard doesn't pop up, and you can also use the wizard, click Help and Open Wizard.



Click Enter Wizard to start the wizard, or click Cancel to exit the wizard.

Steps:

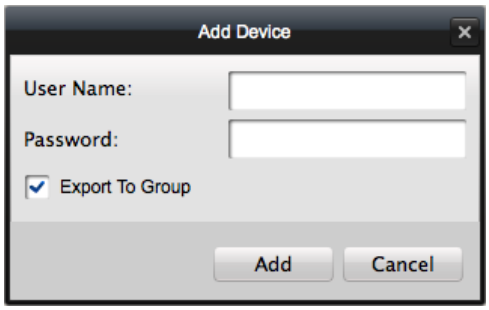
1. According to the hint, click Add icon to add devices to the management list of the software.



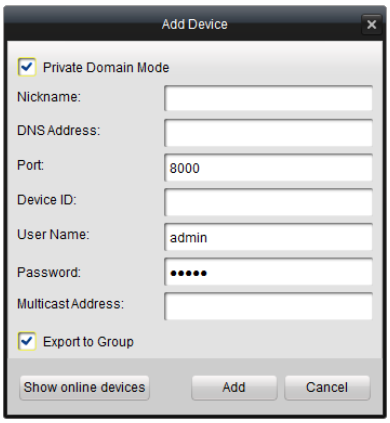
2. Create a nickname for the device, enter the IP address and the port number, the user name, and the password of the

device.

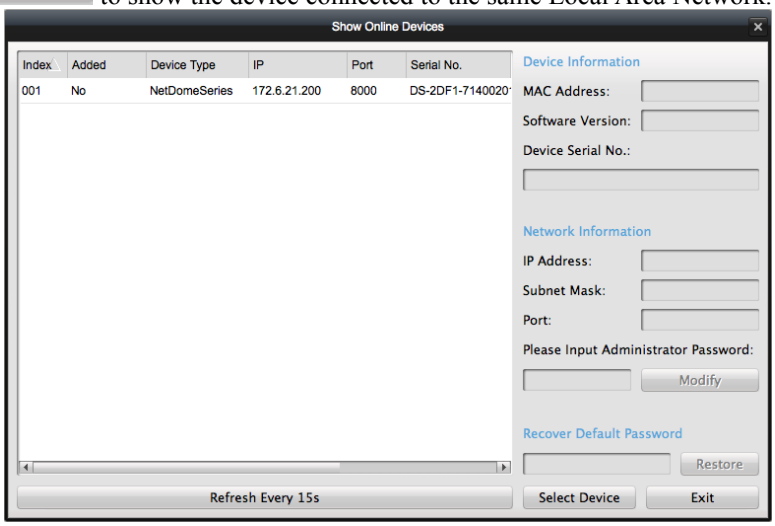
3. Click Add to add the device.



If you add the device with a domain name, you can check the Private Domain Mode checkbox. And create a nickname, enter the domain name and port number, and enter the admin name and password of the device to add the device.



You can also click Show online devices to show the device connected to the same Local Area Network.



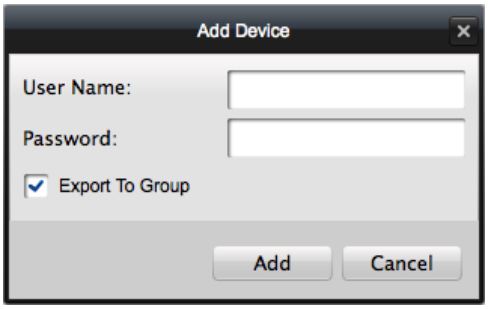
Adding the active online devices

Steps:

1) Select the device in the device list, and the information of the device such as the MAC address the software version and the serial number is shown in the left part. The information in this part can't be modified.
2) In the Network information area, you can modify the IP address the Subnet Mask and the Port number with entering the admin password of the device.
3) You can also recover the default password for the device, with the code provided by the authorized engineers.

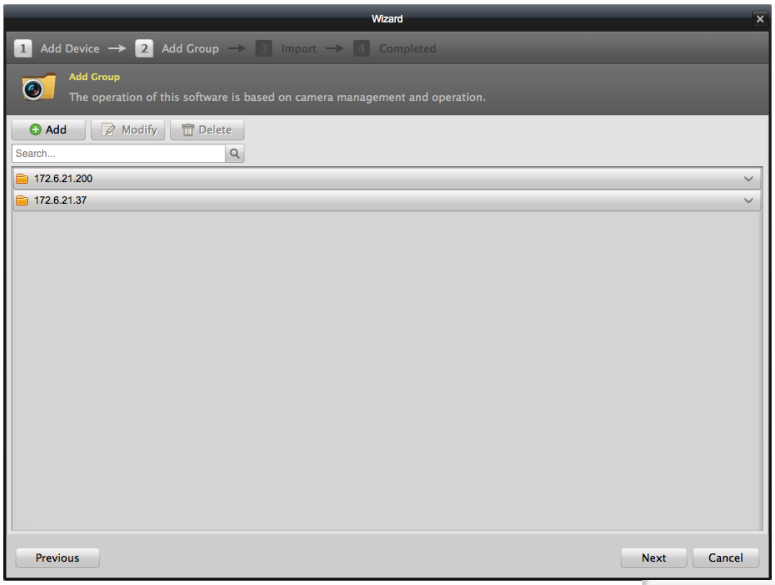
4. Adding Camera Group

When adding a device, you can check the Export to Group checkbox to export the device you added to a certain camera group. By default, the name of the group is the same with the name of the device you just added.

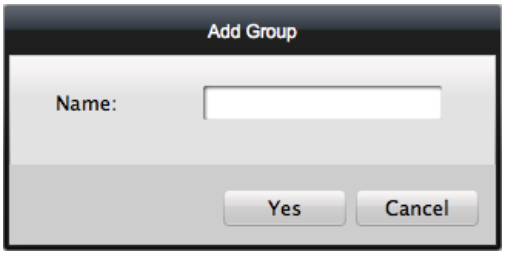


If you want you customize the camera choosing for the group and the group name. You uncheck the Export to Group checkbox and click Next page on the Wizard, to enter the adding group interface.

Click Save to add a new user. Click **Modify** to change the settings for the new user.

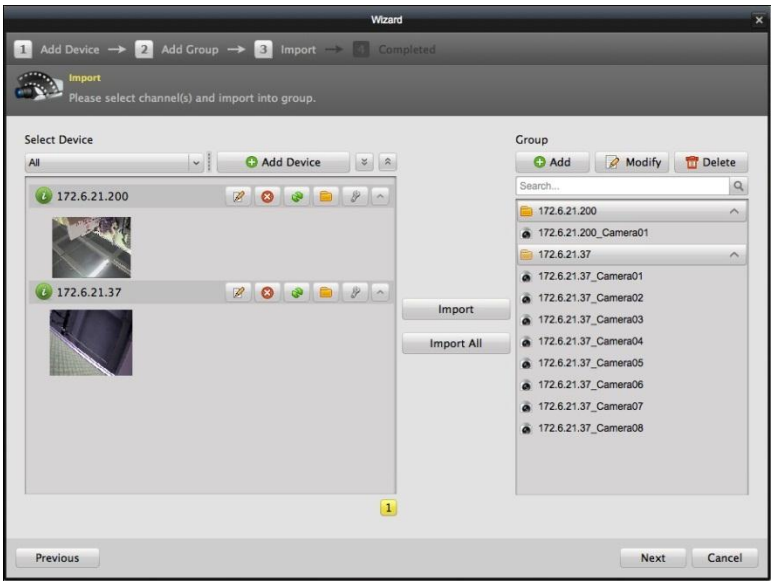


5. Click the Add on Group dialog box. Edit the name of group and then click Confirm to save your settings. The added group will be displayed in the list.



6. Import Channels to Group

In the left area on **the Camera Import** interface, click to select the channels and then click **Import** button to import the selected channels to the Group on the right.



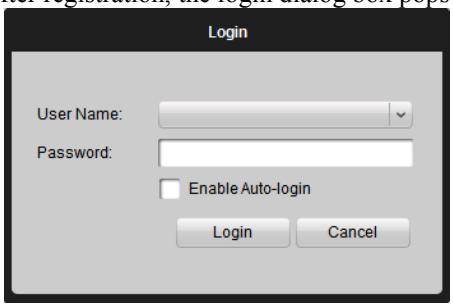
You can drag and select multiple channels to import them to the group you added.

Notes:

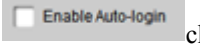
- The devices to be added must be online currently.
- One channel can be added to different groups.
- Up to 256 groups can be added, and 64 channels can be added to each group, with a maximum of 1024 channels for all the groups totally.
- After importing the selected channels to the group, you can return to the control panel and then enter the Main View interface to get a live view of the added channels.

2.3 User Login

When you open the iVMS-4200 software after registration, the login dialog box pops up, shown in the following figure:



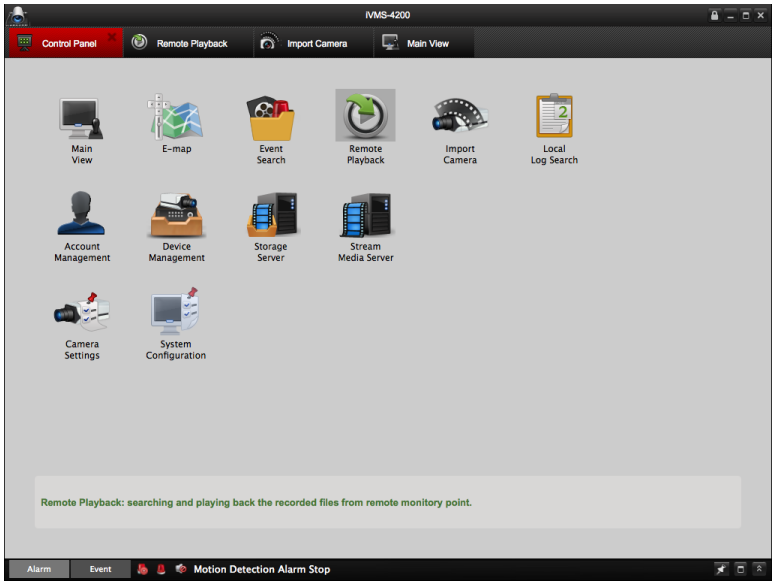
Input the user name and password, and then click **Login.**

Check the 

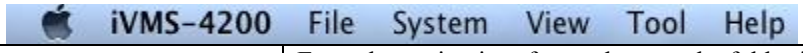
checkbox to enable auto-login，and then the user name and password are not needed for the login next time.

2.4 Control Panel and Main Menu Bar Introduction

The main control panel of the iVMS-4200 is shown in the following figure:



Menu Bar:



File	Open Captured Picture:	Enter the setting interface to browse the folder in the host PC for the exported captured picture file (s) and view the captured pictures.
	Open Video File:	Open the video player and browse the folder location of the exported video file (s), click to browse the folder in the host PC of the record files. You can also capture pictures when playing of the video file.
	Open Log File:	Enter the Log File interface to browse the folder in the host PC for the exported log file(s).
	Exit:	Exit the iVMS-4200 remote client.
System	Lock:	Lock the screen operation. You must log in after locking the system.
	Switch User:	Switch login user.
	System Configuration:	Enter the System Configuration interface.
	Import Configuration File:	Import client configuration file from your PC.
	Export Configuration File:	Export client configuration file to your PC.
View	1024*768:	Display window at size of 1024*768.
	1280*1024:	Display window at size of 1280*1024.
	Full Screen:	Display window in full screen.
	Control Panel:	Enter Control Panel.
	Main View:	Enter Main View interface.
	E-map:	Enter E-map interface.
	Event Search:	Enter Event Search interface.
	Import Camera	Enter Import Camera interface.
	Camera Settings	Enter Camera Setting interface.

Tools	Account Management	Enter User Account Management interface.
	Device Management	Enter Device Management interface.
	Storage Server Management	Enter Storage Server Management interface.
	Stream Media Server Management	Enter Stream Media Server Management interface.
	Broadcast	Select device to start broadcasting.
	Device Arming Control	Quick setting for arming the device for alarms.
Help	Open Wizard	Use the guide for camera import.
	About	View information of the client software, including company, software name, version, etc.
	User Manual (F1)	Click to open the User Manual; you can also open the User Manual by pressing F1 on your keyboard.

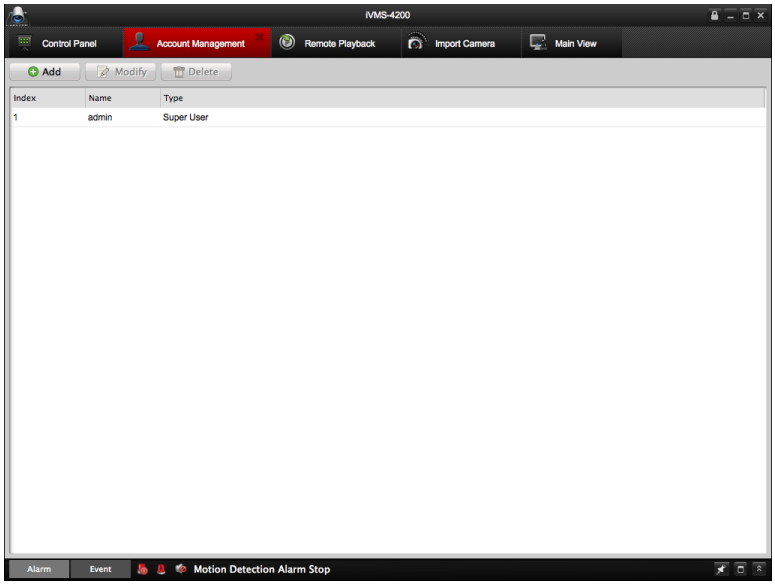
There are 12 icons on the control panel, and their functions are described in the following table:

Operating Options	Main View	Viewing live video and playback record files and other operation (e.g., picture capture, recording, PTZ control, etc.).
	E-map	Managing and displaying E-Map and hot areas and spots; realize E-Map operation (e.g., operate map zoom in/out, view hot spot, display alarm, etc.)
	Event Search	Searching and playback of the event record files; realize playback operation.
	Remote Playback	Playback the recorded video and audio composite stream or only video files in the remote client.
	Import Camera	Adding, modifying or removing the camera groups; import/export of cameras.
	Local Log Search	Searching, viewing and backup of local logs (alarm, operation, system logs).
Management Options	Account Management	Adding, modifying or removing the user account parameters; assign operating permission to each user.
	Device Management	Adding, modifying or removing the DVR device; configuring parameters (e.g., network, alarm input/output, HDD, etc.) for the added DVR.
	Storage Server Management	Adding, modifying or removing the storage server; configuring parameters (e.g., record schedule, network, HDD, etc.) for the added storage server.
	Stream Media Server	Adding, modifying or removing the stream media server; configuring parameters (e.g., RTSP port, upper/lower limit, etc.) for the added stream media server.
Configuration Options	Camera Settings	Configuring camera parameters (e.g., image quality, record schedule, motion detection, etc.).
	System Configuration	Configuring the general parameters (e.g., saving path of files, alarm sound, Email, etc.).

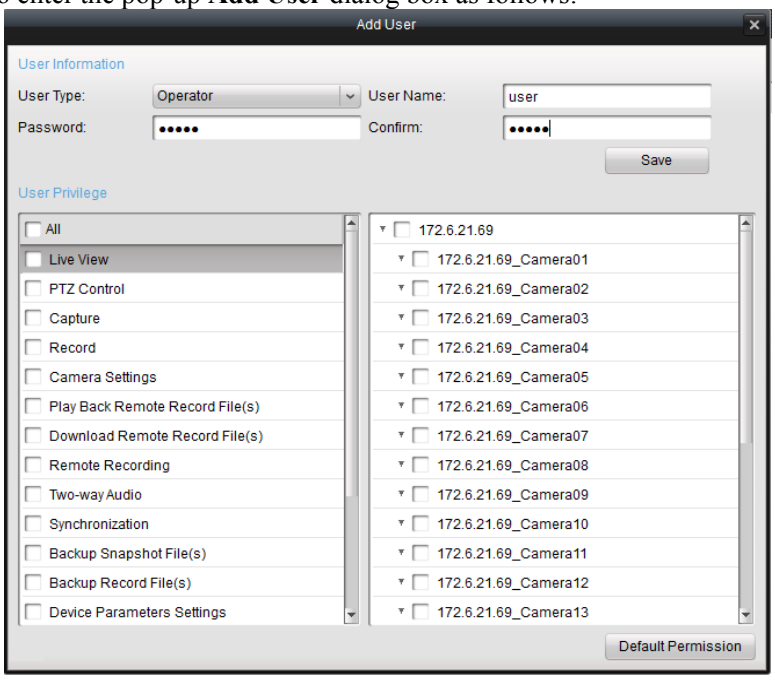
2.5 Account Management

Purpose:
In the iVMS-4200 client software, many user accounts can be added, and for the different users, different permissions can be granted.
Steps:

1. Click to enter the account management interface:



2. Click to enter the pop-up **Add User** dialog box as follows:



User Information:
User Type: you can select in the drop-down list of the two kinds of user types (Administrator and Operator) to create the users with different permissions.

User Name &Password: Customize the login user name and password.

User Permissions

There are 27 operating permissions to be selected And the permissions for accessing different cameras are also provided.

Note: The Admin user has all the permissions as default and operator user's permission should be selected in the list. All the selected permissions take effect immediately.

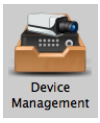
Chapter 3. Connecting and Local Management for DVR, NVR and Network Cameras

Before you start:
Before any operation, you need to add a device and import cameras. There are many ways to add the device in the management list. You can add devices follow the guide of wizard.
Please refer to *Section 2.2 Wizard for Importing Device*.
This chapter introduces the connecting and management of the devices.

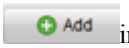
3.1 Device Adding in the Device Management Interface

3.1.1 Adding Device

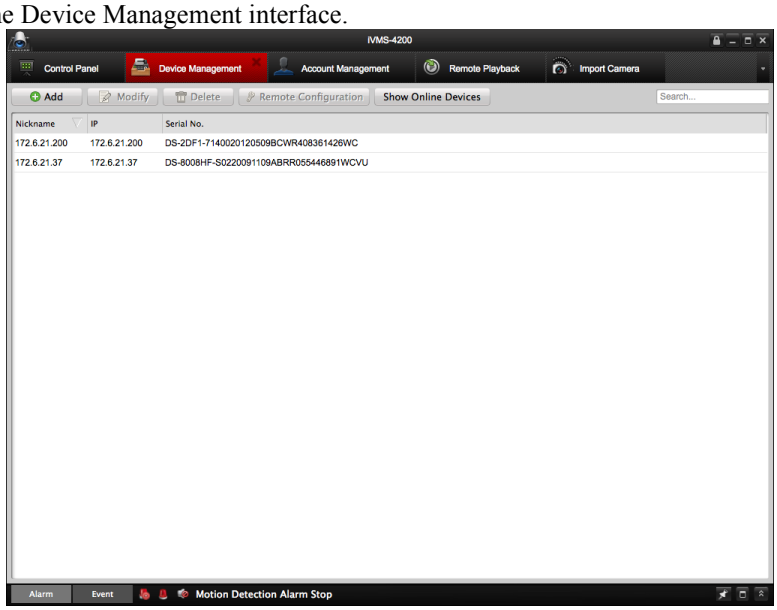
Steps:

1. Click 

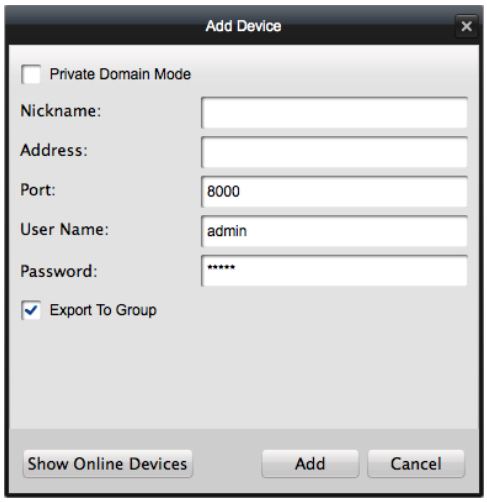
to enter the device management interface.

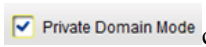
2. Click 

in the Device Management interface.



3. Create a nickname for the device and then input it with other information, the User Name and Password are admin and 12345 respectively and the port number is 8000 by default.

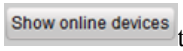


If you check the 

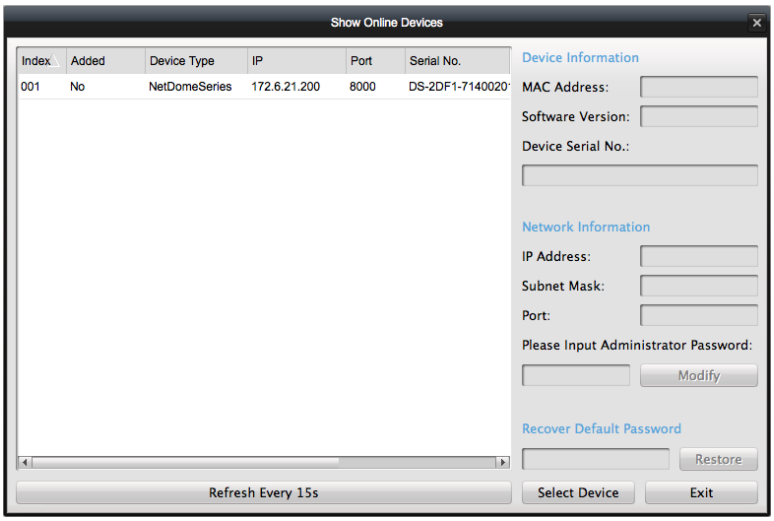
checkbox, you should enter the DNS address and Device Domain Name as well.

The iVMS-4200 also provides the **searching the active online devices** function.

Steps:

1. Click the **Show Online Devices** icon to search the online devices. All the online devices will be searched and shown on the interface.
2. Click to select the online devices you want to add, and then click 

to add the device.
3. Enter the nickname, the user name and the password of the device to add it to the management list.



Index shows the numbers of the devices found.
Added status shows the adding status of the device, if the device is already added in the management list of the software, **Yes** is shown in this list.
Device type shows the type of the device, whether it is a camera or a DVR and so on.

Steps:

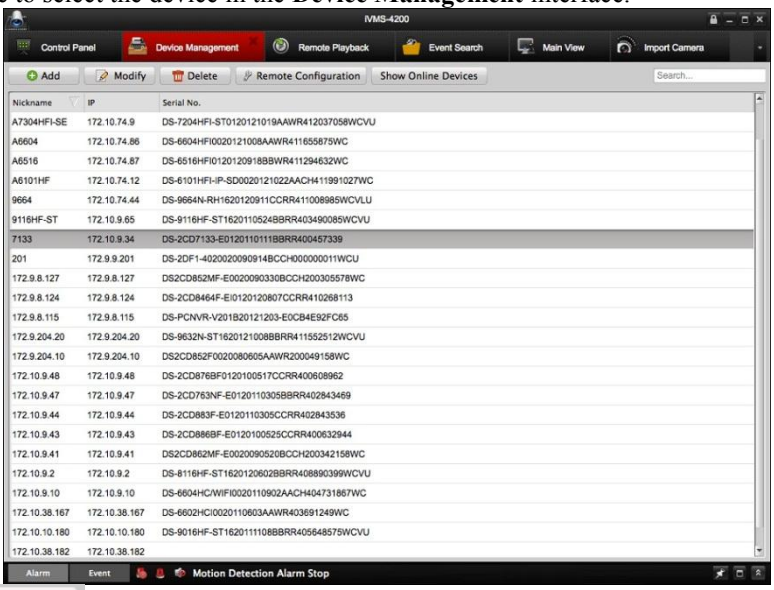
1. Select the device in the device list, and the information of the device such as the MAC address the software version and the serial number is shown in the left part. The information in this part can't be modified.
2. In the Network information area, you can modify the IP address the Subnet Mask and the Port number with entering the admin password of the device.
3. You can also recover the default password for the device, with the code provided by the authorized engineers.

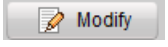
3.1.2 Device Configuration

After adding the device, you can follow the procedure in this section to configure the device.

Steps:

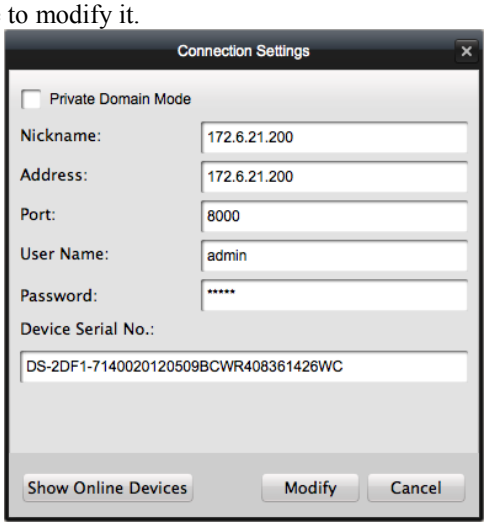
1. Click the device name to select the device in the **Device Management** interface.



2. You can click 

to edit the device basic information as device name and address.
Or

You also can double click the device to modify it.



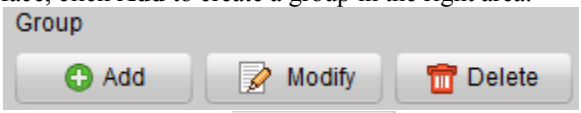
Click Delete icon to delete the selected device and you can also configure the settings of the device by clicking Remote Configuration. For the detailed procedures of remote configuration, please refer to *4.3 Remote Device Management and Configuration.*

3.2 Adding a Camera Group

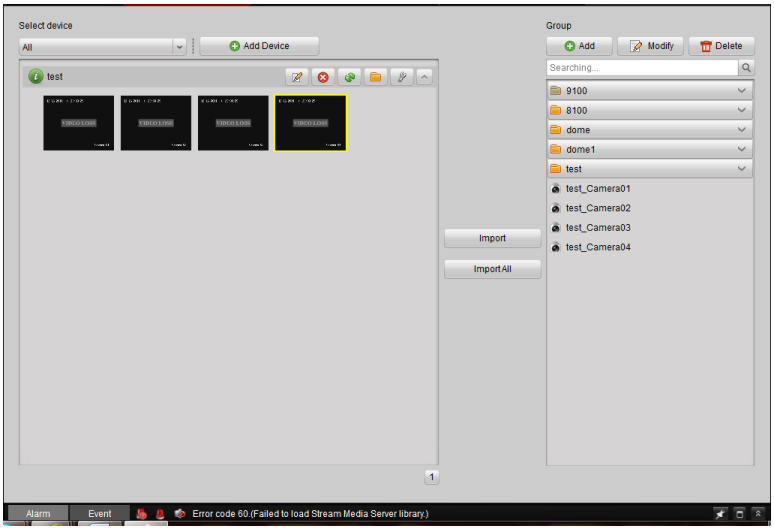
A camera group must be added for the live view and other operation. After adding the device, please return to the control panel interface and click Import Camera to enter camera group configuration interface.

Steps:

1. In the Import Camera interface, click **Add** to create a group in the right area.



2. Select the camera in the left area, and then click Import or Import All to add the cameras to the group. You can also hold the Ctrl key and select multiple channels or drag and select the channels to import.

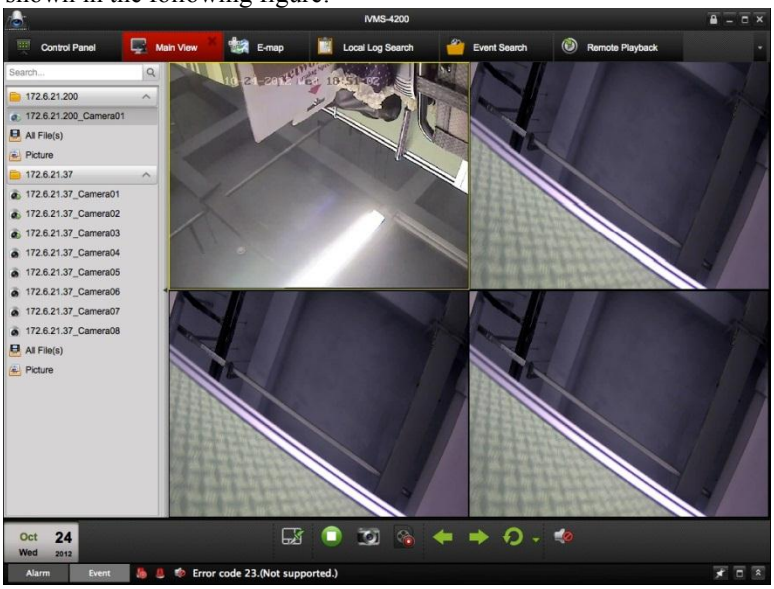


3.3 Live View

Before you start:
A camera group is required to be defined before live view. For the grouping operation, please refer to chapter *3.2 Adding a Camera Group*. And the group name is shown in the list on the left bar.
Entering the Live View Interface:

Click the main view icon

in the control panel, or click View -> Main View on the toolbar to enter the live view interface.
The main view interface is shown in the following figure:



Camera Status:

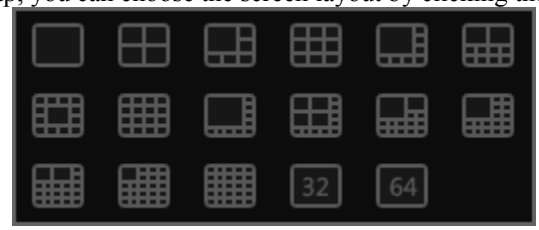
Icon	Description
	Camera is online and works properly.
	Camera is offline.
	Camera is in live view.
	Camera is in recording status.

Main View Toolbar:

Button	Name	Description
	Layout	Select different layout modes.
	Stop All	Stop the display of all the cameras.
	Manual Record	Start manual record for the selected channel, click again to stop.
	Previous and Next	Click to view previous and next camera.(Available only when auto-switch.)
	Auto Switch	Start auto-switching the screen by cameras or by groups.

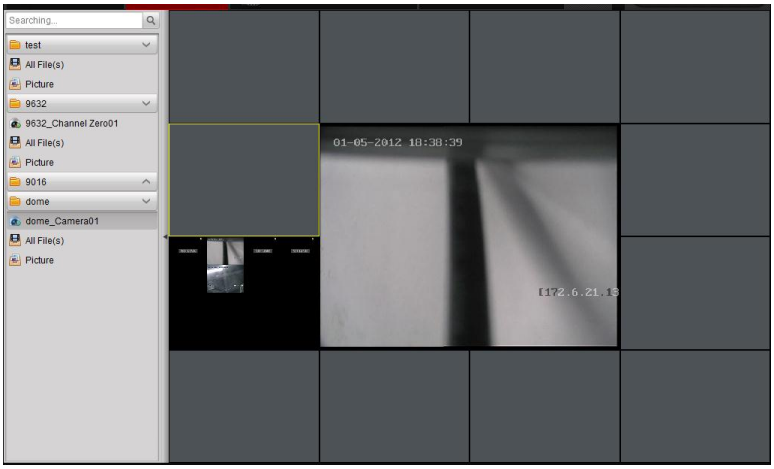
	Volume	Adjust the volume for live audio.
	Live Audio	Enable/disable live audio.

Click , the following box pops up, you can choose the screen layout by clicking the certain icon.



3.3.1 Basic Operations in Live View

Start live view for one channel:
To view the live video, drag the camera from the list to the display window, or double-click the camera name after you select one screen.



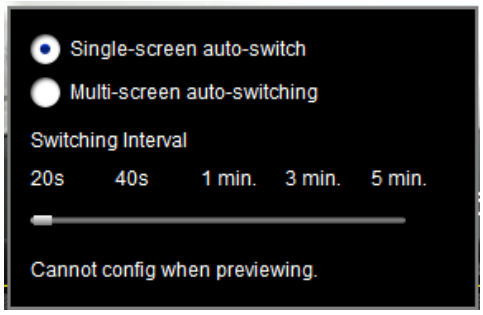
Start live view for camera group:
You can also get the live view for the whole group and display the live view of all the cameras in the group on the screen. Click the group name, and then click the Play button at the bottom of the screen, see the following figure.
Or
Double-click the group name.

Stop live view:

To stop the live view for all the channels, click on the bottom bar.

Cycle Live View:
Cycle live view mode includes the auto-switch in one screen or the auto-switch in multi-screen.

1. Click the next to the .
2. Choose the auto-switch mode and set the interval for the switching.



3. Click on the toolbar on the bottom to start the cycle live view.

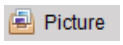
3.3.2 Capture in Live View

Steps:

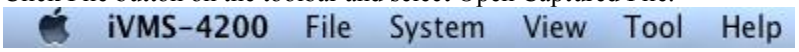
1. Select the screen.
2. Click icon on the bottom toolbar of Main View.

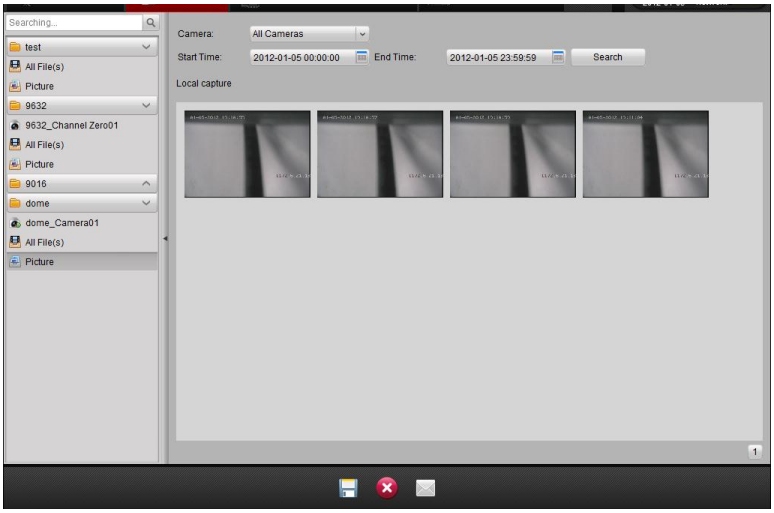
A small window of the captured picture will be displayed to notify you whether the capture is done or not.
If the capture is successful, there will be a link to the saving path of the picture, and if not, there will be error messages accordingly.

To view the captured pictures:

- Click the small window of the picture showed on the right bottom after capture.
- Click the 

icon on the left panel; all the pictures captured on the remote client for the selected group are stored here.
- Click File button on the toolbar and select Open Captured File.





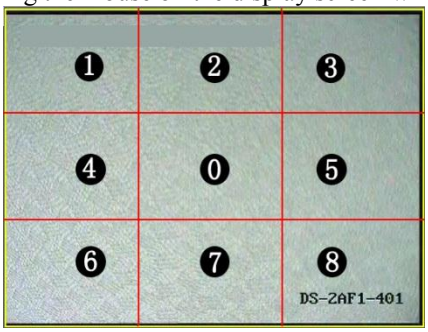
3.3.3 PTZ Control in Live View

For the PTZ control, click the icon on the toolbar on the screen for each camera, and the PTZ control panel will be displayed on the left side of the Main View.

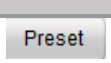
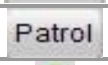
Note: This chapter only shows the operation of the PTZ control, to configure the PTZ parameters see 4.4.8 PTZ

Click on those directional buttons to control the PTZ function, or click the directional buttons on the PTZ control panel. You can also control the PTZ direction by the directional buttons on your keyboard.

You can control PTZ by dragging and clicking the mouse on the display screen window.



Use the mouse to click on the video image, and then drag the mouse to different directions by following the arrows displayed on the video: ❶ Upper Left; ❷ Up; ❸ Upper Right; ❹ Left; ❺ Right; ❻ Lower Right; ❼ Down; ❽ Lower Right. The PTZ will move to the direction as the arrow goes.
Description of buttons on PTZ Control Panel:

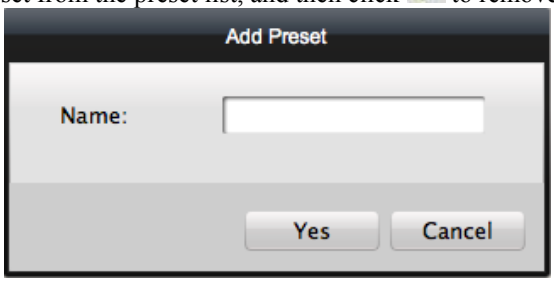
Button	Description
	Zoom
	Focus
	Iris
	3D Positioning
	Light
	Wiper
	Direction buttons, click to start/stop auto-scan.
	Speed adjustment for PT function
	Preset configuration
	Pattern configuration
	Patrol configuration
	Calling function
	Adding and editing function
	Deleting

Preset Configuration

To add a preset for the PTZ:
Steps:

1. Click the direction buttons to move the PTZ to a desired location,
2. Select a PTZ preset number from the preset list, and then click to add the preset and name this PTZ preset.

To delete a preset, select the PTZ preset from the preset list, and then click to remove it.



Pattern Configuration

To add a pattern for the PTZ,
Steps:

1. Click the button to enter the PTZ pattern path setup panel.

2. Select a PTZ pattern path number from the pattern list, click to enter edit mode.
3. Click to start recording of this pattern path.
4. Use the direction buttons to control the PTZ movement.
5. Click to stop the pattern recording. Click to save the pattern path.

Patrol Configuration

After adding two or more presets for one channel, you can set a patrol with presets for PTZ.
To add a patrol path for the PTZ:

Steps:

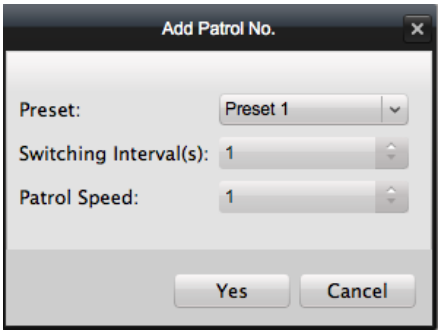
1. Click button to enter the PTZ patrol path setup panel.
2. Select a track number from the list.
3. Click to add a preset (including the dwell time and PTZ speed for the preset) for this patrol path.

   Repeat the above operation to add other presets to the patrol.

4. Click to call the patrol path or click to stop calling.
5. Click to edit a preset in the patrol path.

Notes:

- Up to 16 patrols can be configured.
- The patrol time can be set to 1~255 sec, and the patrol speed to level 1~40.



3.4 Alarm and Event in Live View

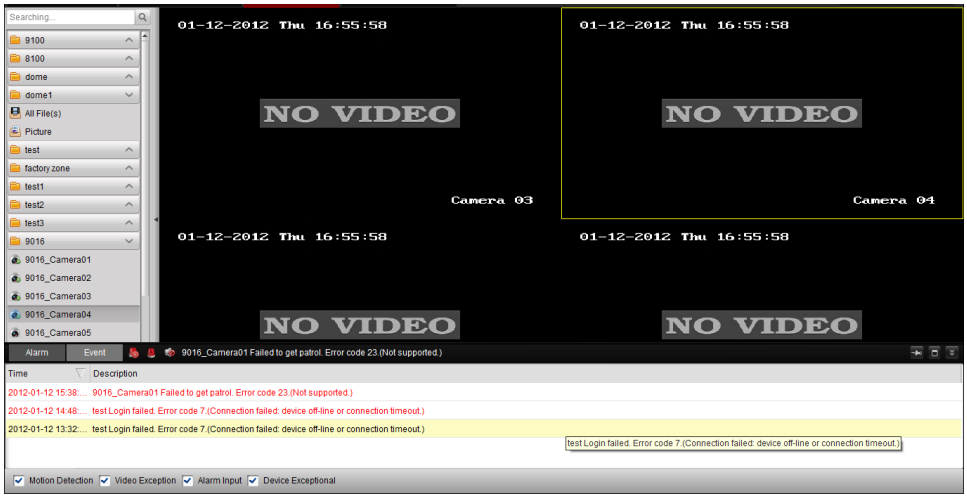
3.4.1 View Alarm /Event Information

The Main View interface provides the

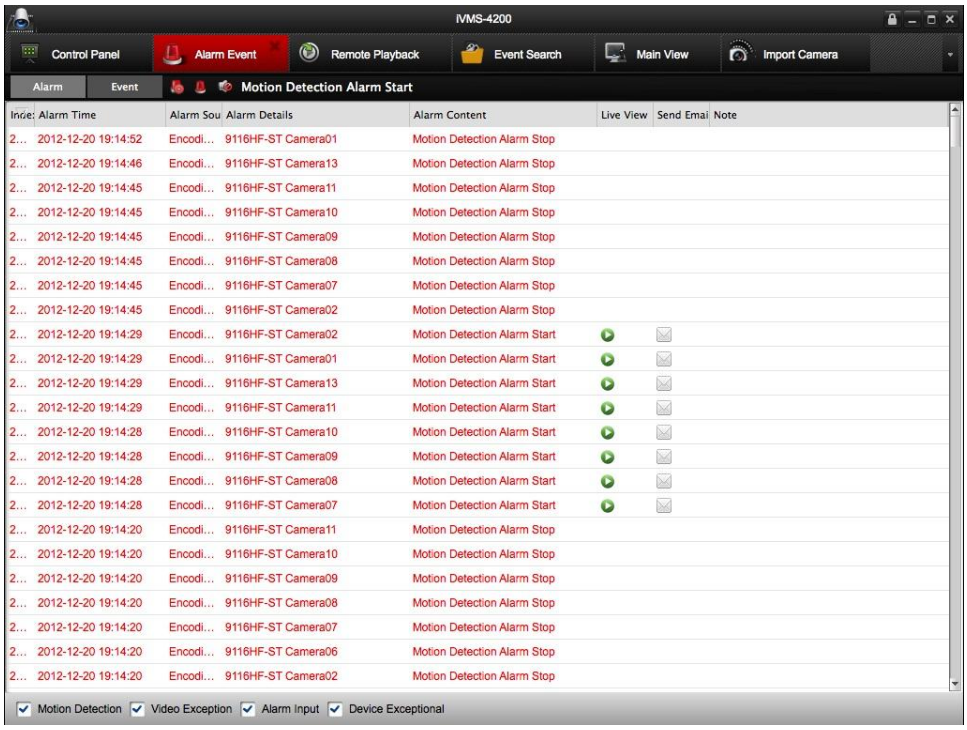
buttons at the left bottom toolbar.

Click the button to view the alarm or event information as shown in the panel.

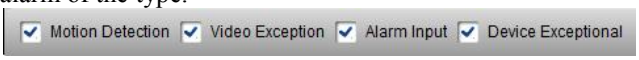
You can click icon to lock the toolbar and show the information in the main view. Or click to hide the list.



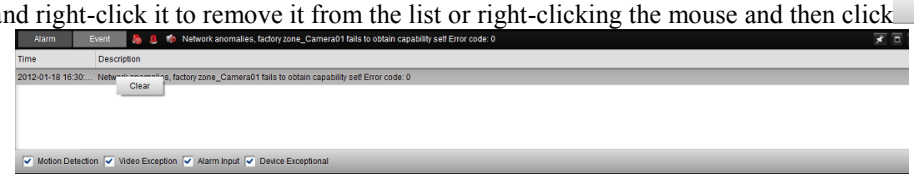
Click icon to maximize the alarm/event log display panel and enable it to be shown in a new tab page.


iVMS-4200
Control Panel
Alarm Event
Remote Playback
Event Search
Main View
Import Camera
Alarm
Event
Motion Detection Alarm Start
Index
Alarm Time
Alarm Sou
Alarm Details
Alarm Content
Live View
Send Emai
Note
2... 2012-12-20 19:14:52 Encodi... 9116HF-ST Camera01 Motion Detection Alarm Stop
2... 2012-12-20 19:14:46 Encodi... 9116HF-ST Camera13 Motion Detection Alarm Stop
2... 2012-12-20 19:14:45 Encodi... 9116HF-ST Camera11 Motion Detection Alarm Stop
2... 2012-12-20 19:14:45 Encodi... 9116HF-ST Camera10 Motion Detection Alarm Stop
2... 2012-12-20 19:14:45 Encodi... 9116HF-ST Camera09 Motion Detection Alarm Stop
2... 2012-12-20 19:14:45 Encodi... 9116HF-ST Camera08 Motion Detection Alarm Stop
2... 2012-12-20 19:14:45 Encodi... 9116HF-ST Camera07 Motion Detection Alarm Stop
2... 2012-12-20 19:14:45 Encodi... 9116HF-ST Camera02 Motion Detection Alarm Stop
2... 2012-12-20 19:14:29 Encodi... 9116HF-ST Camera02 Motion Detection Alarm Start
2... 2012-12-20 19:14:29 Encodi... 9116HF-ST Camera01 Motion Detection Alarm Start
2... 2012-12-20 19:14:29 Encodi... 9116HF-ST Camera13 Motion Detection Alarm Start
2... 2012-12-20 19:14:29 Encodi... 9116HF-ST Camera11 Motion Detection Alarm Start
2... 2012-12-20 19:14:28 Encodi... 9116HF-ST Camera10 Motion Detection Alarm Start
2... 2012-12-20 19:14:28 Encodi... 9116HF-ST Camera09 Motion Detection Alarm Start
2... 2012-12-20 19:14:28 Encodi... 9116HF-ST Camera08 Motion Detection Alarm Start
2... 2012-12-20 19:14:28 Encodi... 9116HF-ST Camera07 Motion Detection Alarm Start
2... 2012-12-20 19:14:20 Encodi... 9116HF-ST Camera11 Motion Detection Alarm Stop
2... 2012-12-20 19:14:20 Encodi... 9116HF-ST Camera10 Motion Detection Alarm Stop
2... 2012-12-20 19:14:20 Encodi... 9116HF-ST Camera09 Motion Detection Alarm Stop
2... 2012-12-20 19:14:20 Encodi... 9116HF-ST Camera08 Motion Detection Alarm Stop
2... 2012-12-20 19:14:20 Encodi... 9116HF-ST Camera07 Motion Detection Alarm Stop
2... 2012-12-20 19:14:20 Encodi... 9116HF-ST Camera06 Motion Detection Alarm Stop
2... 2012-12-20 19:14:20 Encodi... 9116HF-ST Camera02 Motion Detection Alarm Stop
Motion Detection
Video Exception
Alarm Input
Device Exceptional

As shown in the figure above, in the alarm log display panel, there are 4 different alarm types: “Motion”, “Video Abnormal”, “Alarm Input” and “Device Abnormal”.
Check the checkbox to show the alarm of the type.



You can select a log and right-click it to remove it from the list or right-clicking the mouse and then click Clear.



3.4.2 Alarm Log Linkage

Each alarm log shows the related alarm information, including occurred time, source and type of the alarm.
You can click the or button to preview or send email of the selected alarm information and video.

- **Live View:** View the live video of the selected alarm source camera.
- **Send Email:** Send the alarm information by Email.

Note: You need to configure Email settings in Control Panel→System Configuration→Email before using this function.

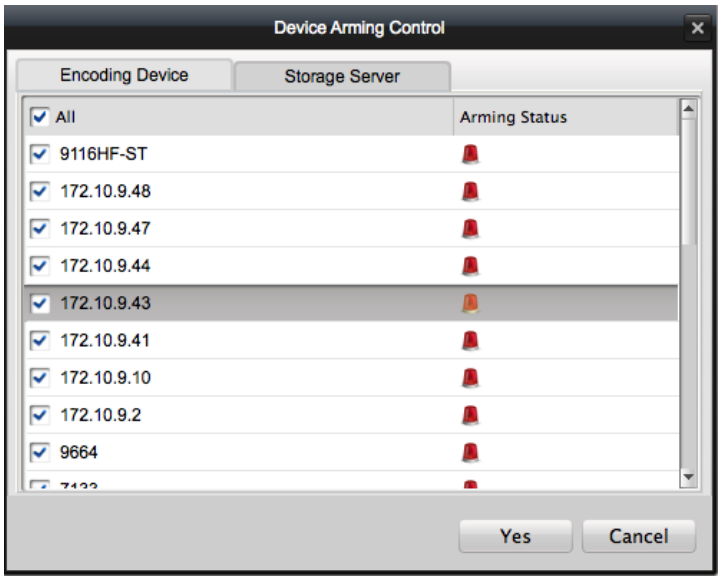
3.4.3 Block the Alarm from Certain Device

Purpose:
Sometimes, the blocking of the alarm information from certain device is needed. This is especially useful when you use more than one client to manage many devices.

Steps:

1. Click Tool on the menu bar.

2. Click Device Arming Control to enter the alarm enable or disable interface.



3. Check the checkbox to enable the alarm or uncheck it to block the alarm information. There are tabs to list different kind of connected devices.
4. Click Yes to confirm your settings.

Note: This function only blocks the selected alarm information from being received by this client only; the alarm information can also be received by other clients. And when you block the alarm information from certain devices, all the alarm information is not shown in the client and all the linkage methods in the client such as the audible warning, pop-up image, and email sending are not taken as well.

3.5 Local Recording and Capture

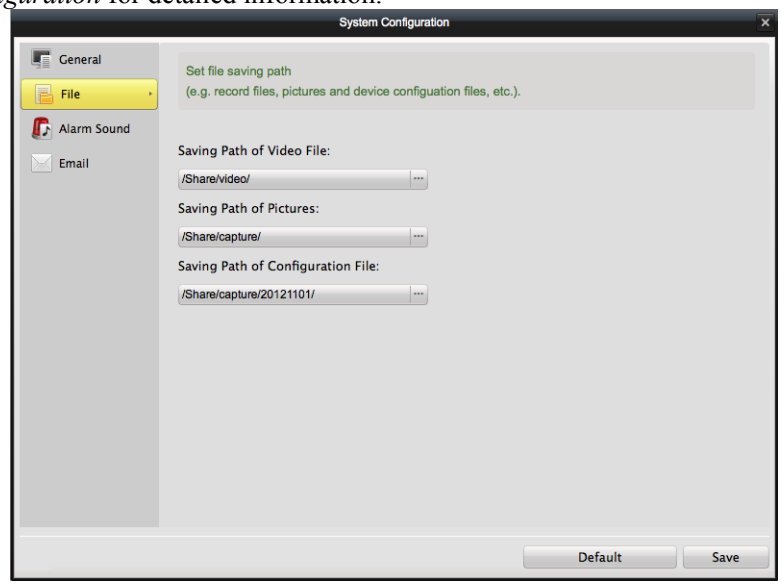
iVMS-4200 software provides the local recording and remote recording.
Local recording refers that you record the video from the remote device in the local PC runs the iVMS-4200 software. Local recording for the iVMS-4200 can only be manual recording, and the schedule recording is not valid.
The **remote recording** refers to the remote control of the device in the management list to record on the HDD of the device side.

3.5.1 Recording and Picture Capturing on the host PC for the iVMS-4200

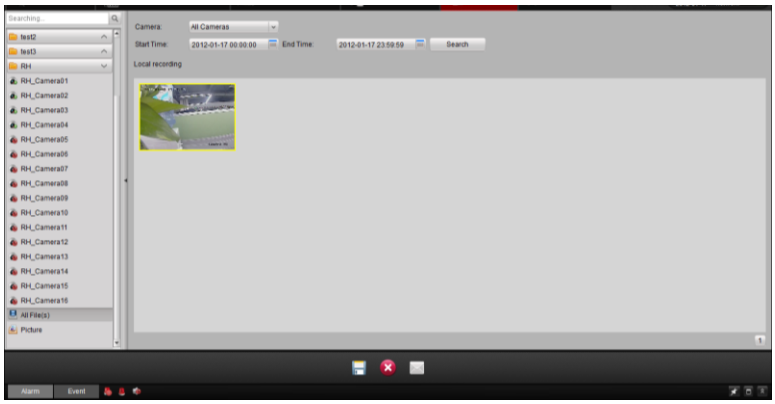
Local Recording (also called Manual Recording) function allows you to record the live video in the Main View mode. And the record file is recorded in your PC.
Steps:

1. In the main view interface, select a channel in the group and double-click it to view the live video.
2. Then click button at the bottom of main view panel to start to record the live video.
3. To stop recording, please re-click button. A prompt box with the saving path of the video files you just recorded will pop up if all the operations succeed.

To change the saving path of the record files and captured pictures, go to the files configuration interface; see *7.2 File Saving Path Configuration* for detailed information.



Quick View the Manual Recording File:
You can open the folders to find the record file, or you can click All File(s) icon to show the record files in the iVMS-4200.



You can double-click the record file to play it. For detailed information, see *3.6.1 Playback of Local Stored Files*.

To manual capture in the live view, see *3.3.2 Capture in Live View*.

3.6 Local Playback

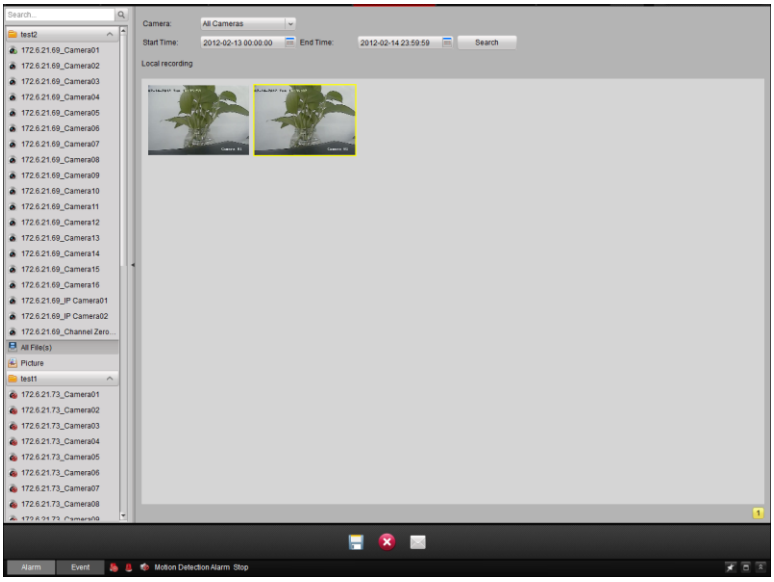
Based on the different recording modes, there are two playback modes: Local playback and remote playback.

3.6.1 Playback of Local Stored Files

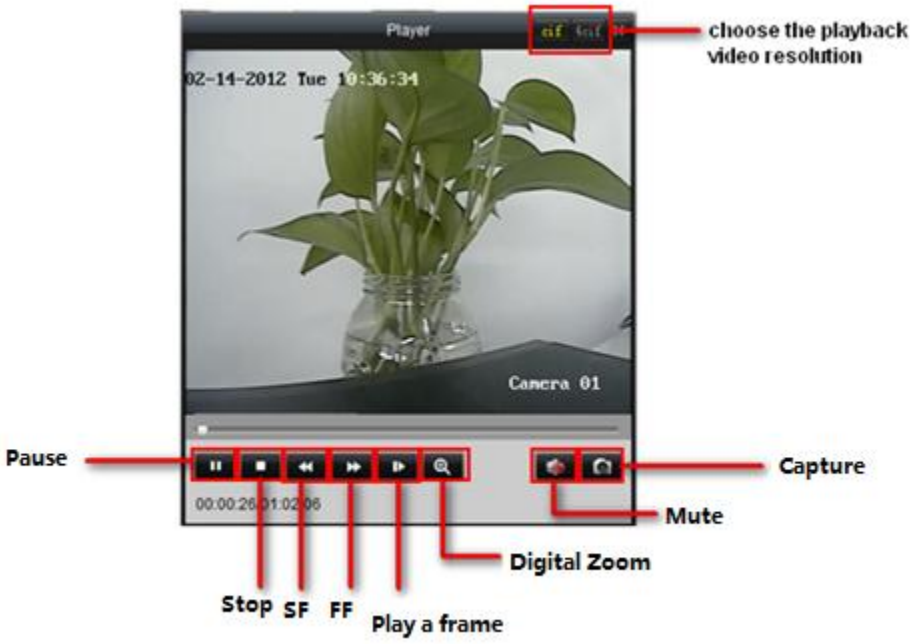
Play back the video files created in local recording mode which is restored in your PC.

Steps:

1. Go to Main View panel and click the **All File(s)** icon to enter the Local Record Files interface. Select a camera and specify the start time and the stop time, and then click **Search** button to search the video clips. The matched video found will be listed in the display panel below.



2. Double click the record file to play it back.



You can click button to save as the selected record file. You can click to delete the clip from the panel, or click the button to send the selected video clip by Email (The size of video clip must be less than 5M).

Note: To send the record file to an Email address, you must configure Email settings. For detailed instruction, *see 7.4 Email Configuration.*

3.6.2 Instant Playback

1. Go to **Main View** panel, left-click a channel to enable the menu shown as follows, and click button to start instant

playback.

2. In instant playback interface, please click button to start playback the first video files of current day; click and buttons to fast forward or slow forward. And you can also left-click on the playback panel to show the menu with multiple playback function.

3. You may also use the timeline at the bottom of the Main View panel to adjust the playback progress. And the tag you just added is shown as a flag icon on the progress bar.

3.7 Managing E-map

Relating certain camera group to an E-map allows you to visualize the location and distribution of cameras. The E-map is beneficial especially when alarm is triggered.

3.7.1 Adding an E-map

For the first time to use E-map function, you are required to add a map first.

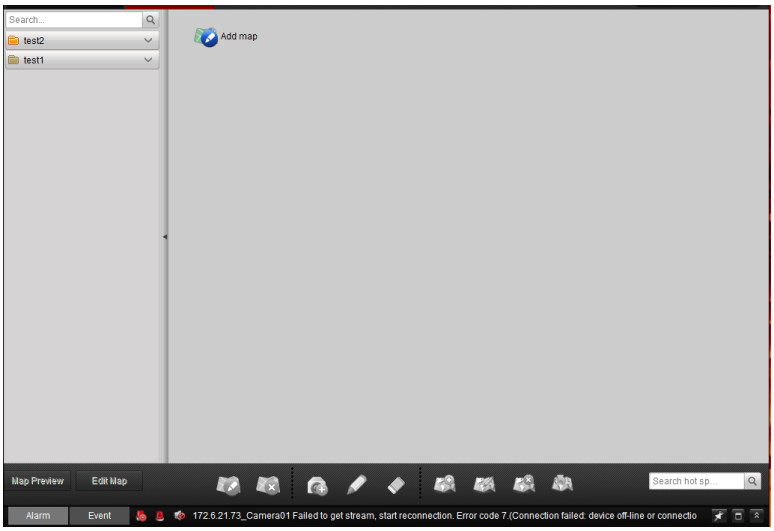
Click View->E-map View on the menu bar or click on the Control Panel to enter the main interface of E-map. Refer to the following figure:

Note: Only one map can be added for each camera group.

Steps:

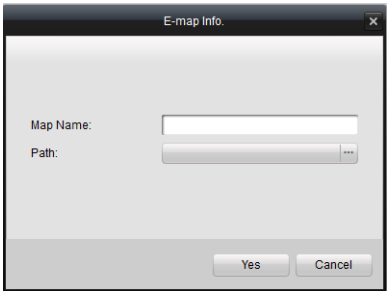
1. Click

to add a map related to the camera group.



2. Click ... to browse the directory where the map is stored.

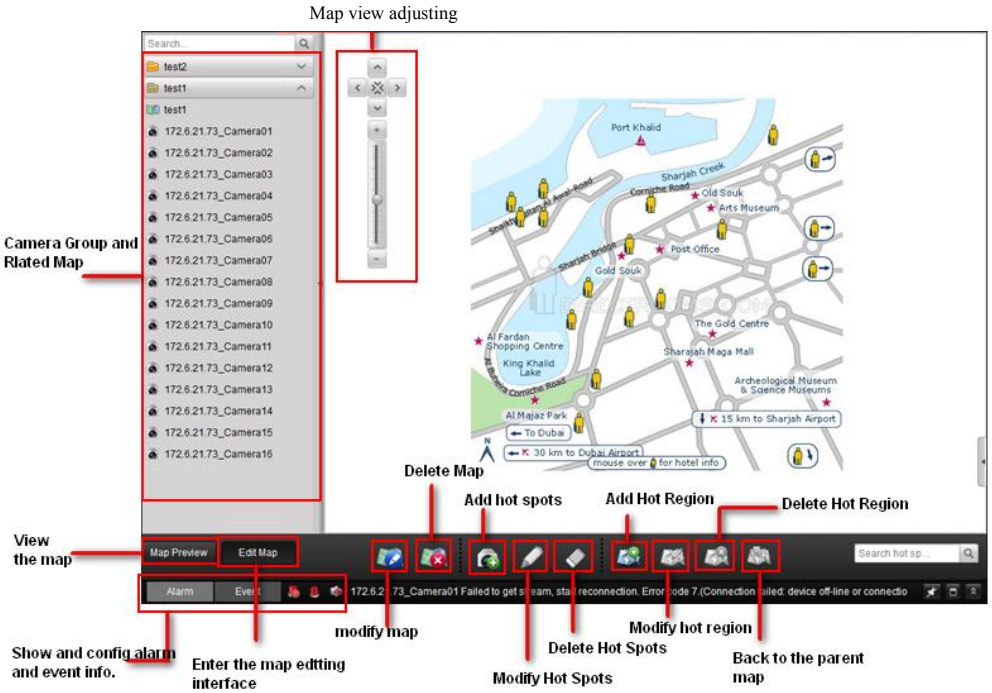
Note: The picture format of the map should be *png, *jpg or *bmp.



3. Enter a name of the map.

4. Click Yes to confirm your selection.

After adding map successfully, it shows on the window and name of map also appears on the list of group.



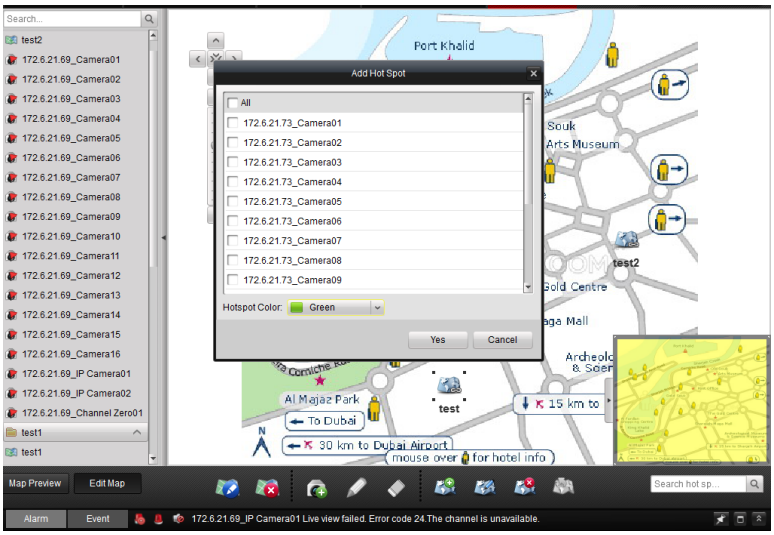
3.7.2 The Hot Spot Function

You can add the camera label in the map to show the location of the camera. The label is called hot spot. And with the hot spots added the cameras are linked to the map, in the map preview interface, you can see the live view of the camera and if there is an alarm triggered, icon appears near the camera label.

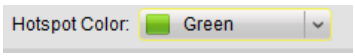
Adding a hot spot:

Steps:

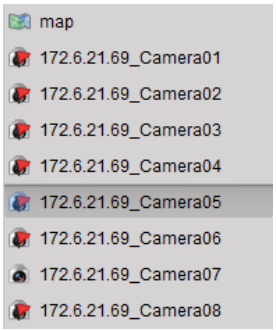
1) Click and select which camera you want to add on the map as a hot spot, and choose the color of the hot spot.



2) Check the checkbox of the camera name to select them as the hotspots.
You can choose many cameras at the same time.

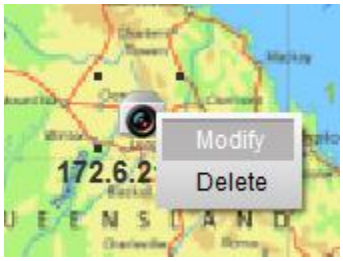
3) You can choose the hot spots label color in this interface. 

After being added as a hot spot, the camera icon in the camera list change to .



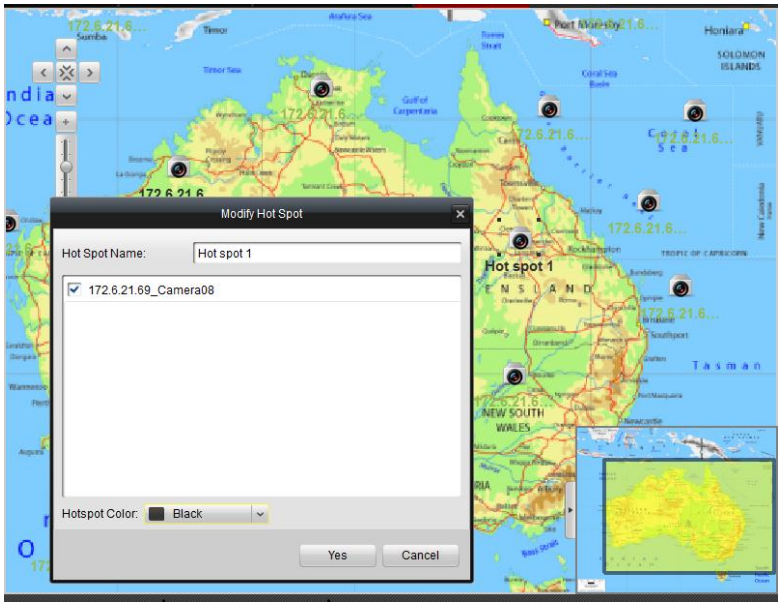
4) Drag the camera icon to certain location on the map.

Editing the hot spot:
Double-click the hot spots icon on the map to modify the hot spot name and the color of it.
Or
Right-click the hot spot and choose Modify.



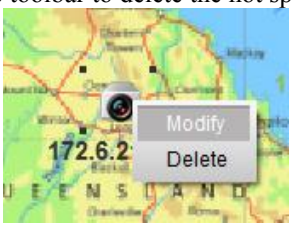
Or

Select a hot spot on the screen and click the icon on the toolbar.

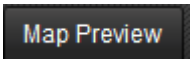


Deleting the hot spot:
Right click on the hot spot and choose delete.
Or

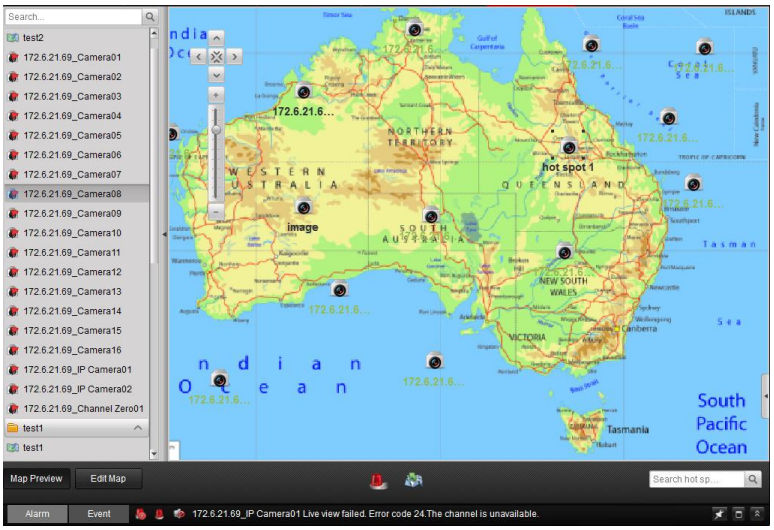
Select a hot spot on the map and click on the toolbar to delete the hot spot.



Previewing the map with the hot spot:

After all the settings are done for the hot spots, click 

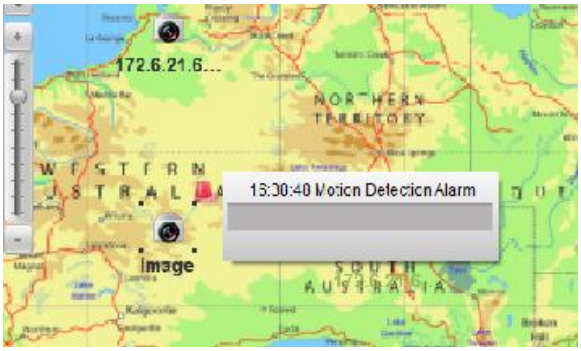
on the toolbar to see the E-map. The hot spots are distributed on the map to show the location of the linked cameras.



Double-click the hot spot, the live view of the camera is shown in the interface.

If an alarm is reported from certain cameras, the icon shows in the map to alert you.

For the detailed alarm information, double click the alarm icon.



You can click the icon to clear all the alarm information.

3.7.3 The Hot Region Function

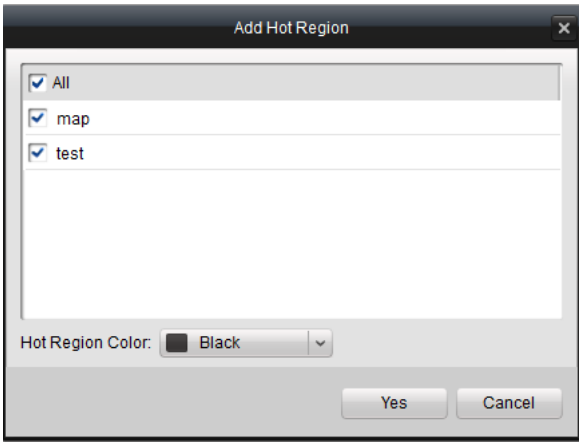
The hot region function links a map to another map. When you add a map to another map as a hot region, an icon of the link to the added map is shown on the map. And the added map is called child map while the map to which you add the hot region is the parent map.

Note: A map can only be added as the hot region for one time.

Steps:

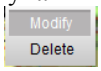
1. Click in the toolbar.

2. In the message box, select the map you want to add as a hot region. And you can also select the color of the map icon.

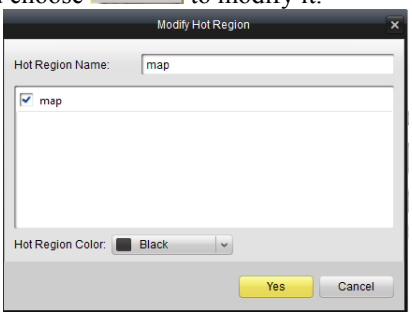


3. Drag the map icon on the map to certain location.

4. You can double-click the map icon to modify the map name and the icon color.
5. You can click on the toolbar to modify it.

   Or you can right-click the icon and choose 

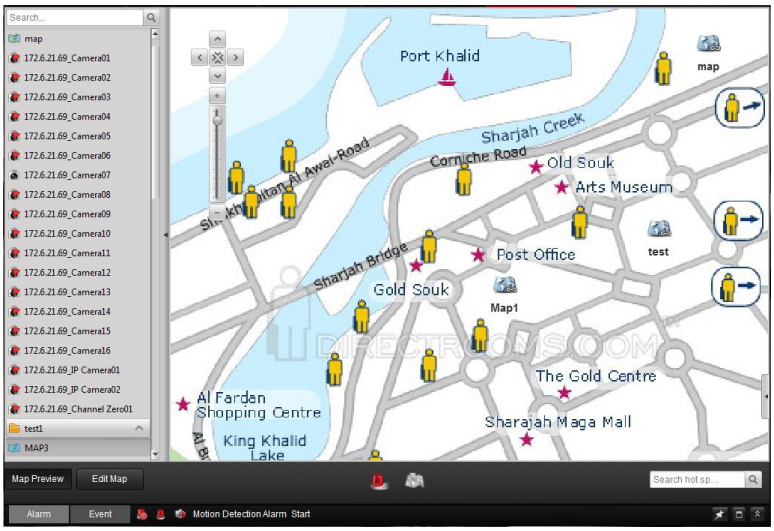
to modify it.



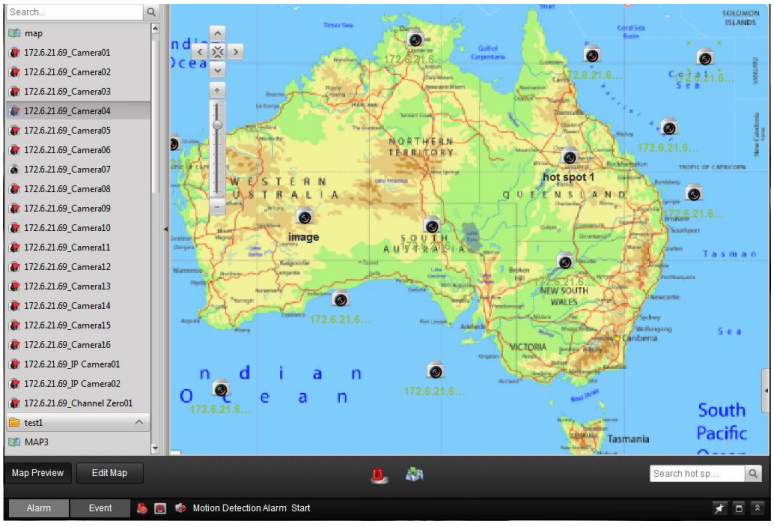
To delete the hot region:

Select the hot region icon on the map and click the to delete the hot region.
Or
Right-click the hot region icon and choose Delete.

Map Previewing with the Hot Region:
After the successful adding and setting of the hot region, go back to the map preview interface.



Clicking the hot region icon now can take you to the child map.



Click the to go back to the parent map.

Chapter 4. Remote Control and Management for DVR, NVR and Network Cameras

Remote control and management means that you operate the iVMS-4200 software to control the devices, such as control the device to record, to capture, to change parameters and reboot. And you can also get the record files stored in the HDD of the device.

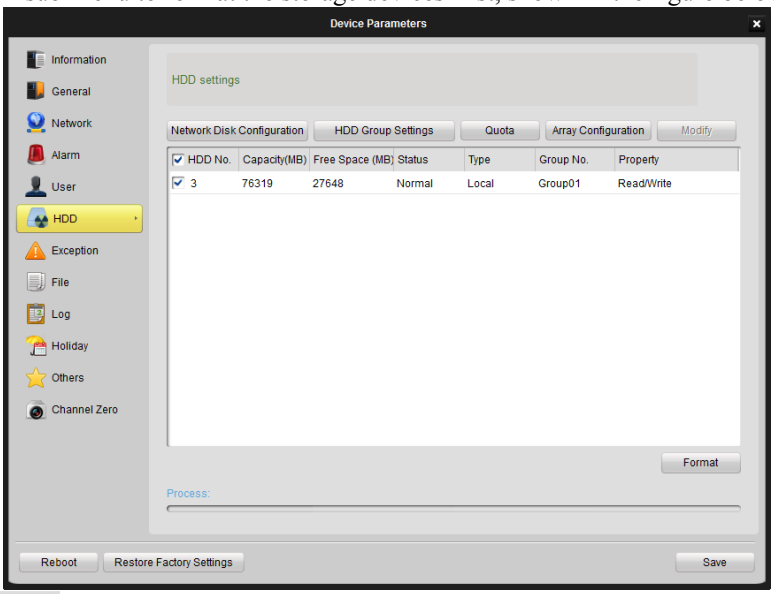
4.1 Remote Recording

When the video storage devices are HDDs, NetHDDs or SD/SDHC cards installed in the DVR, NVR or IP cameras, or when you have a storage server connected you can configure the recording of via the iVMS-4200.

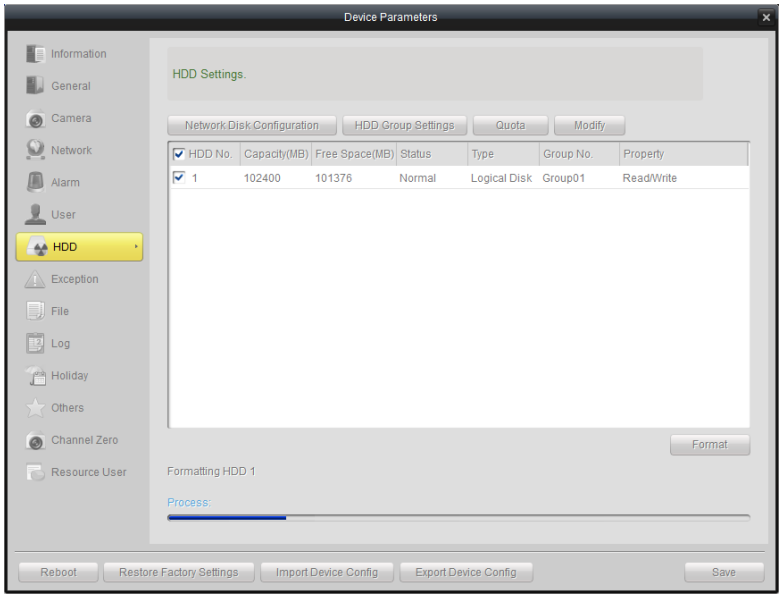
4.1.1 Recording on the Storage Device on the DVR, NVR or Network Camera

Before you start:
For the newly installed storage devices, you need to initialize them.
Note: This is not a mandatory procedure. If the storage devices are already in use, and some record files are recorded on it, the initialization operation should be considered carefully. If the initialization is not needed, start your setting with step 4.
Steps:

1. Format the HDD or SD/SDHC card: After adding the devices into iVMS-4200, enter the Remote Configuration interface of the selected device.
2. Click HDD sub-menu to format the storage devices first, shown in the figure below.

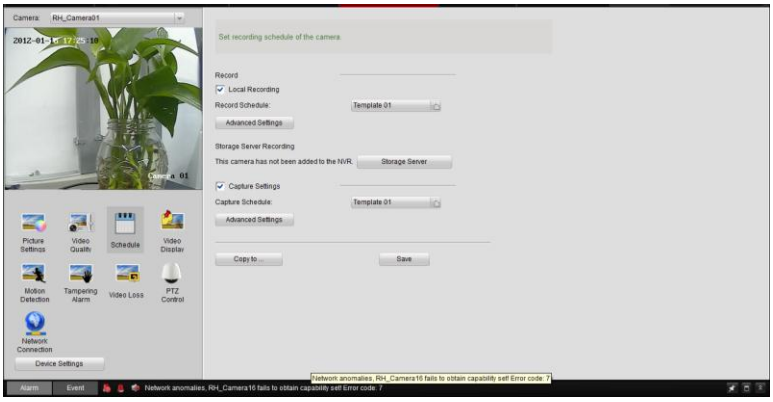


3. Click Format to format the HDD installed in the device. And the process bar shows the formatting process of the HDD.

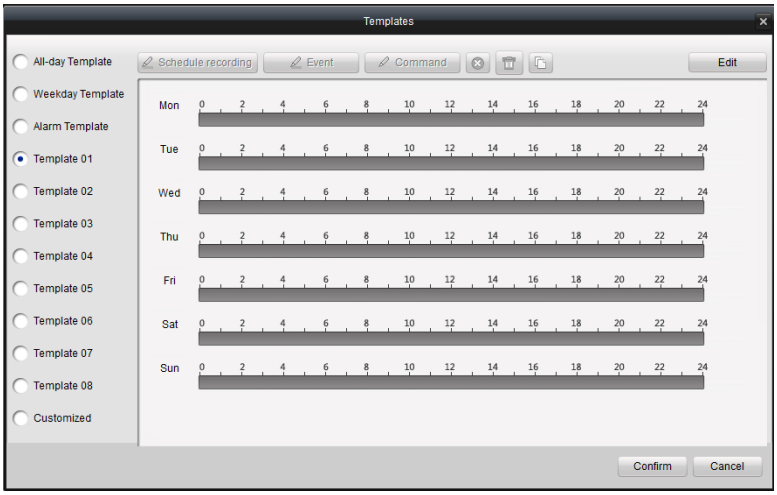


4. Enable Local Recording: Go to **Camera Settings > Schedule** and check the checkbox of the Local Recording.

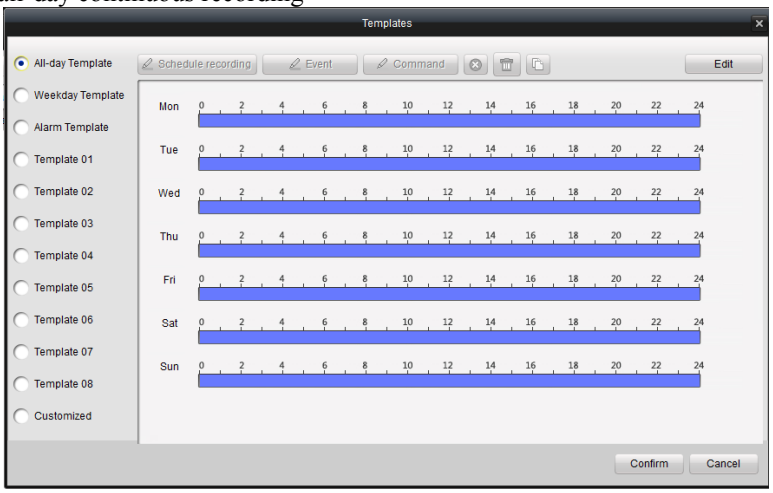
Note: In this interface, the *Local Recording* refers to the recording on the HDD of the DVR or IP Camera.



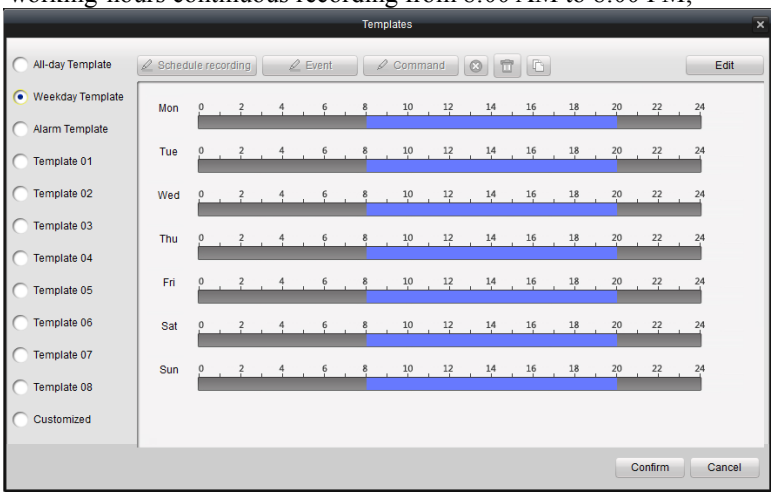
5. Recording Schedule Configuration: click icon and configure the schedule template shown below:



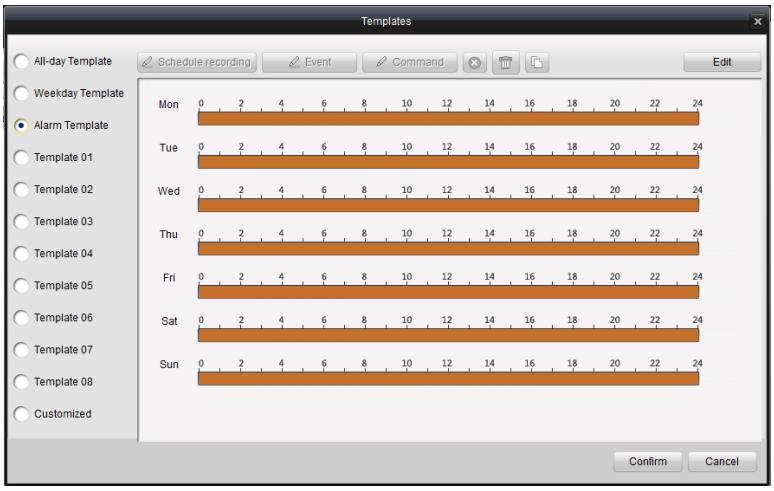
- All-day Template for all-day continuous recording



- Weekday Template for working-hours continuous recording from 8:00 AM to 8:00 PM;

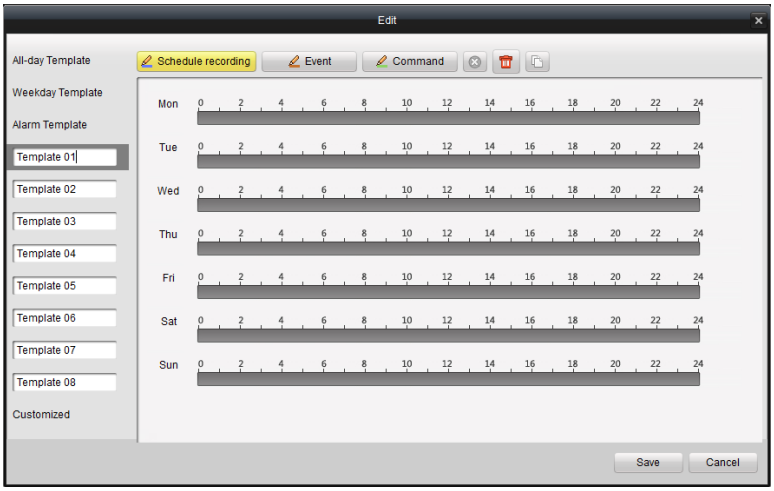


- Alarm Template for all-day event recording.



6. Editing the recording schedule template:

1) Click Edit.



2) You can edit the template name and time schedule in this interface.

Schedule recording means normal scheduled recording. The schedule time bar is blue.

Event means schedule recording for events. The schedule time bar is yellow.

Command means schedule recording triggered by command. The schedule time bar is green.

Note: Command recording function is only available when iVMS-4200 added **ATM DVR** while the ATM transactions are taking place.

When the cursor turns to , you can edit the schedule.

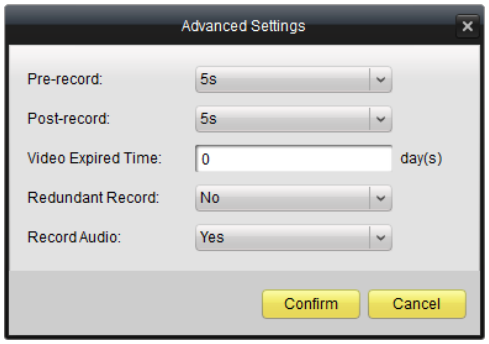
When the cursor turns to , you can move the schedule you just configured.

When the cursor turns to , you can lengthen or shorten the time bar you configured.

7. Click Confirm to save the schedule you just set.

The configuration of the **capture schedule** is the same with that of the record schedule.

Click Advanced Settings in the schedule interface to set the Pre-record time, Post-record time and the storage parameters for the record files.



Pre-record: Normally used for the event triggered record, when you want to record before the event happens.
Post-record: After the event finished, the video can also be recorded for a certain time.
Video Expired Time: The time for keeping the record files in the HDD, once exceeded, the file is deleted.

4.1.2 Recording on the Storage Server

Using iVMS-4200 software, you can configure the recording schedule for any added channels and store the recorded files in the NVR storage server.
The storage server can be configured for recording the video files. And the storage server application software is also packed in the iVMS-4200 software package.

Adding and configuring the storage server

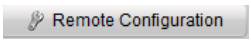
Steps:

1. Click

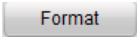
button in the control panel of iVMS-4200, and then click

button to add the storage server.
2. Create a nickname for the storage device and input other information.

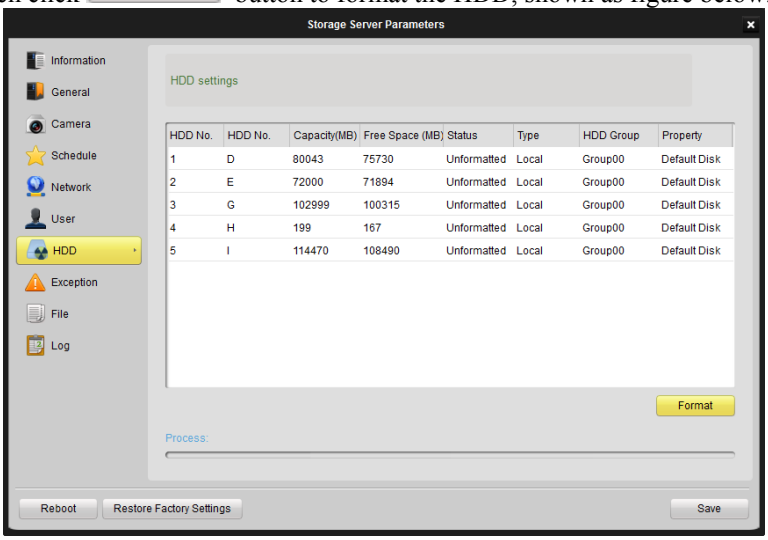
The IP address should be the IP address of the PC on which the storage server runs.

3. Click 

button and go to

sub-menu and select a local HDD in the server for storing recorded files, then click 

button to format the HDD, shown as figure below:


Storage Server Parameters
Information
General
Camera
Schedule
Network
User
HDD
Exception
File
Log
HDD settings
HDD No. | HDD No. | Capacity(MB) | Free Space (MB) | Status | Type | HDD Group | Property
1 | D | 80043 | 75730 | Unformatted | Local | Group00 | Default Disk
2 | E | 72000 | 71894 | Unformatted | Local | Group00 | Default Disk
3 | G | 102999 | 100315 | Unformatted | Local | Group00 | Default Disk
4 | H | 199 | 167 | Unformatted | Local | Group00 | Default Disk
5 | I | 114470 | 108490 | Unformatted | Local | Group00 | Default Disk
Format
Process:
Reboot
Restore Factory Settings
Save

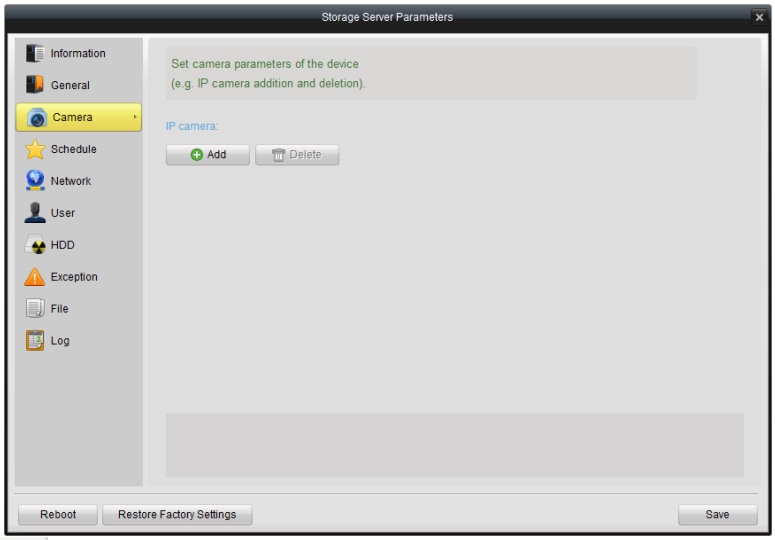
And in this interface you can also configure the network parameters, the user information, the exception handling method and so on.

Setting storage server recording schedule

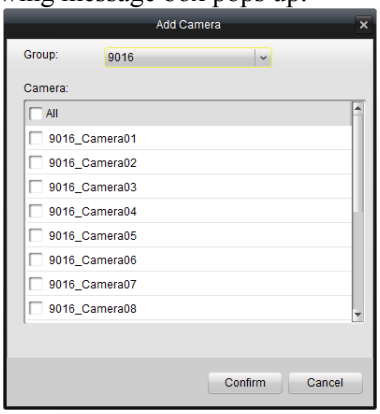
Steps:

1. Add Recording Channels: Click

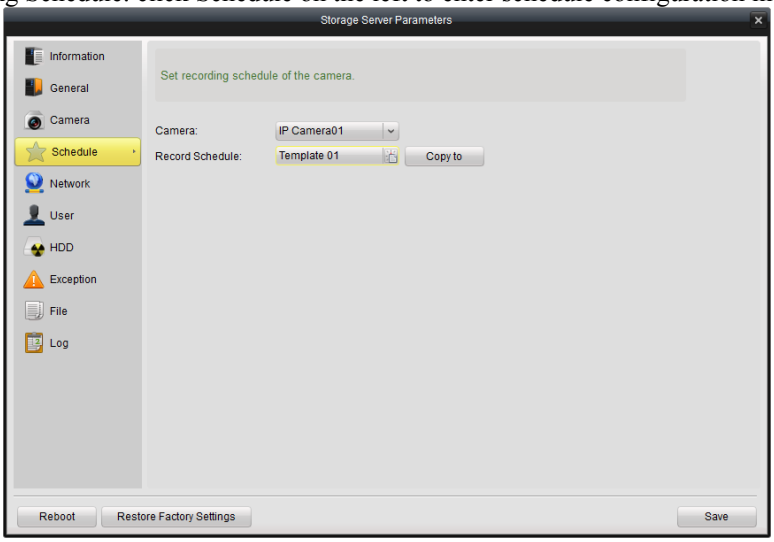
button to enter the interface to choose the camera and add the record file to the storage server.



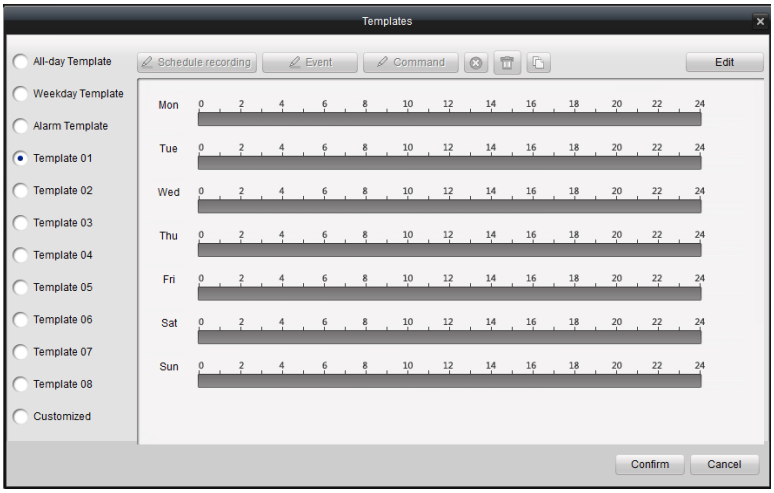
2. Click Add and the following message box pops up.



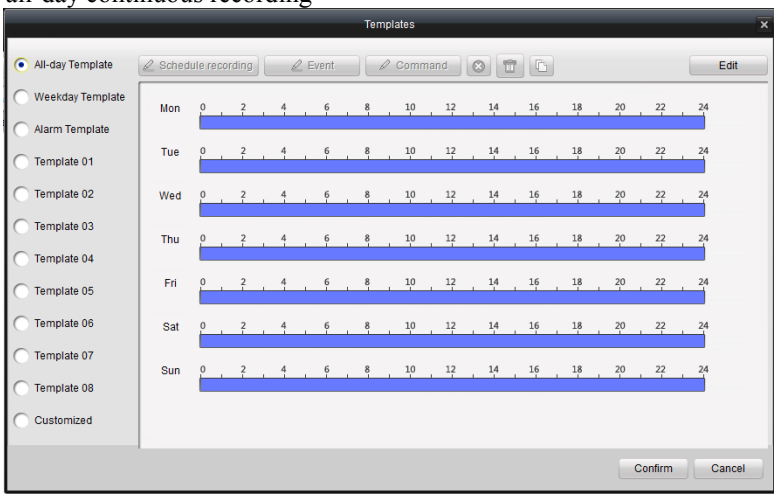
3. Check the checkbox to select the cameras for which you want to record on the storage server. And then click Confirm to confirm your selection.
4. Set Recording Schedule: click Schedule on the left to enter schedule configuration interface.



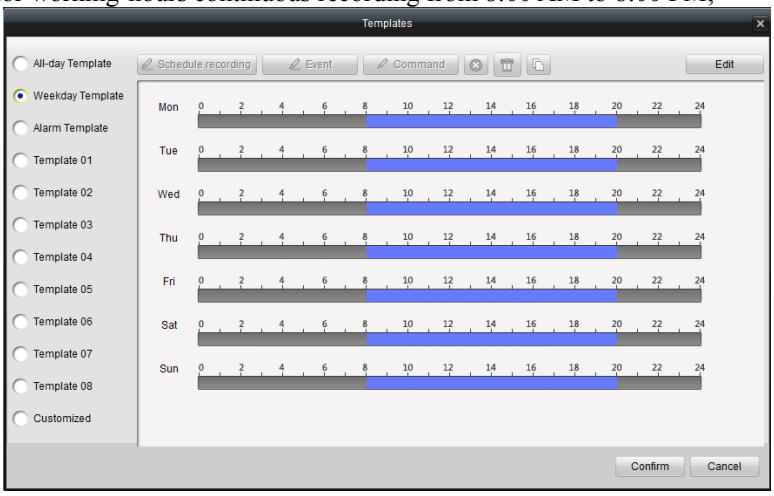
5. Select the camera from the dropdown list, then click icon and configure the schedule template shown as below:



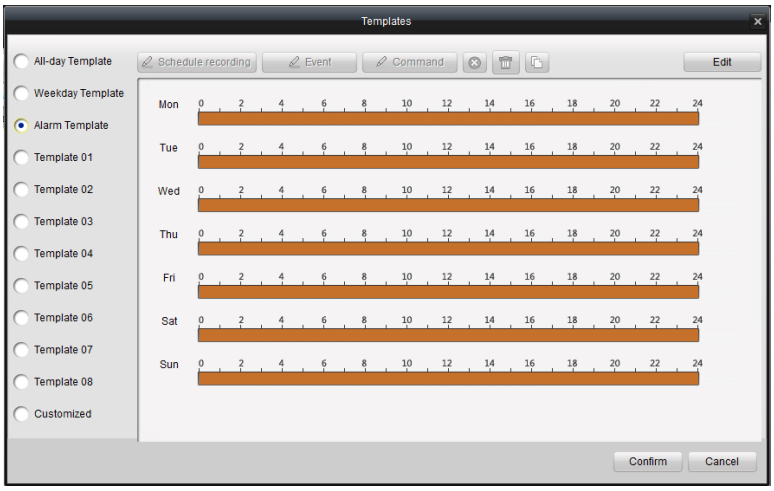
- **All-day Template** for all-day continuous recording



- **Weekday Template** for working-hours continuous recording from 8:00 AM to 8:00 PM;

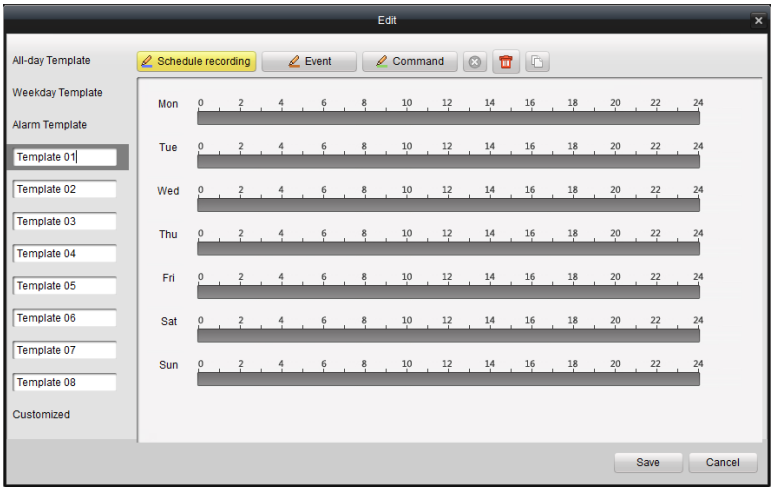


- **Alarm Template** for all-day event recording.



Editing the recording schedule template:

Click Edit.



You can edit the template name and time schedule in this interface.

Schedule recording means normal scheduled recording. The schedule time bar is blue.

Event means schedule recording for events. The schedule time bar is yellow.

Command means schedule recording triggered by command. The schedule time bar is green.

When the cursor turns to , you can edit the schedule.

When the cursor turns to , you can move the schedule you just configured.

When the cursor turns to , you can lengthen or shorten the time bar you configured.

Click Confirm to save the schedule you just set.

The configuration of the capture schedule is the same with that of the record schedule.

Note:

If you want to change recording resolution, bit rate or other recording parameters, please click **Image Quality** button in the **Camera Settings** panel and modify the main stream quality as needed.

To ensure that event recording works properly, please set motion detection &video tampering area, schedule/alarm schedule first and then enable trigger camera recording. More details in **Camera Settings** Chapter.

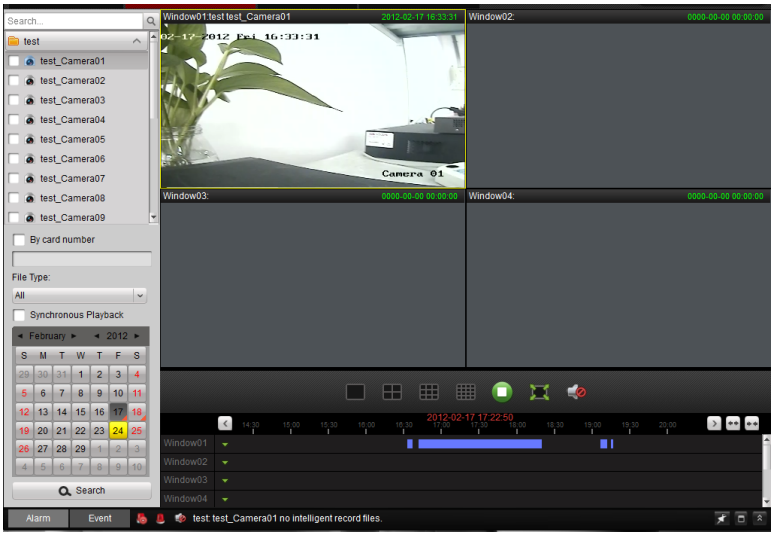
Command recording function is only available when iVMS-4200 added **ATM DVR** while the ATM transactions are taking place.

4.2 Remote Playback

The remote client can search the record files on the Storage Server and the DVR, and it can also do the smart search for the event triggered record files during playback.

Click

in the control panel to enter the Remote Playback Interface.



Toolbar Description:

Icon	Name	Description
	Screen Split	1, 4, 9, 16 screen-mode
	Stop	Stop all the playback video.
	Volume	Adjust volume
	Full-screen	Full-screen Preview

Record file searching:

1. Searching for all the files:

Check the checkbox on the camera list, and then on the calendar below, select the day you want to search. Then click **Search.**

Note: If there are record files for that camera in that day, in the calendar, the icon for that day is displayed as

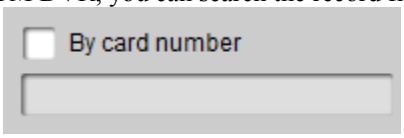
. Otherwise it is displayed as

.

The timeline indicates the time duration for the record file.

2. Searching by card number:

Note: This function is only applied to the ATM DVR, you can search the record files by the DVR card number.



Note: You still need to choose the date and camera to search the files.

3. Searching by File Type:

You can select the file type to restrict the searching condition and search for only the record files for certain types.

Playback management:

1. Left-click the mouse on the screen of which camera you'd like to manage. A toolbar is showed at the bottom.

Toolbar description:

Icon	Description
	Pause the video
	Stop playing
	Playback by single frame
	Smart Search (Only for the devices with the smart search function)
	Clip the record file
	Audio on/off
	Play
	Speed Control
	Digital Zoom
	Capture in the playback mode.
	Download

Note: Click , and the video move forward to next frame.

You can enable audio on only one channel at one time.

Smart search management:

Click on the left-click toolbar, and the smart toolbar is showed up.

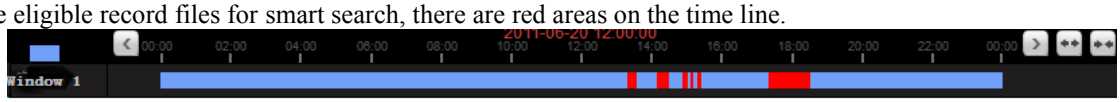
Note: The smart search function should be supported by the remote devices you connected. Now the function is applied to 9000 or 9100 series or above version DVR.

Click to draw the smart search area and click to start the smart search.

Toolbar Description:

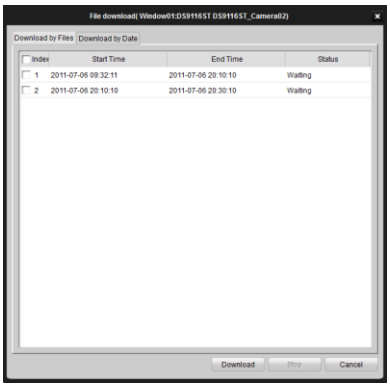
Icons	Description		Icons	Description
	Draw Area			All Area
	Delete Area		1 2 3	Sensitivity of Event
	Start Searching			Last Event
	Next Event			Close

If there are eligible record files for smart search, there are red areas on the time line.



Download record files:

Click to download the files you selected.

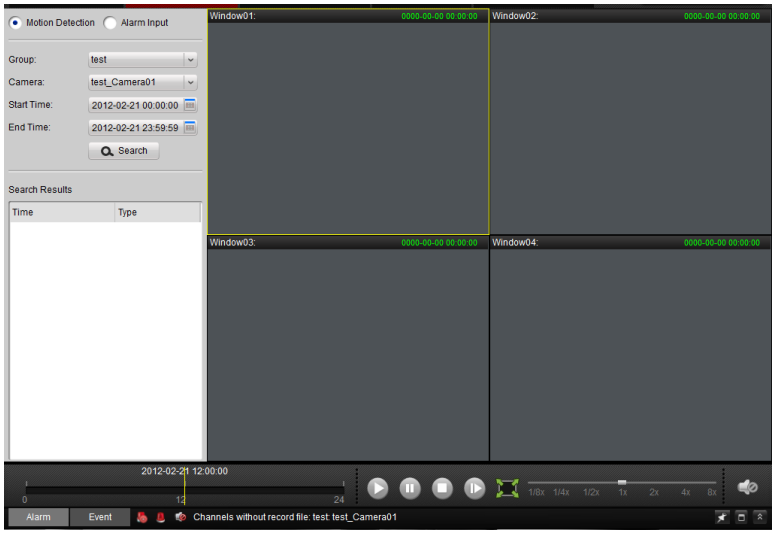


Note: The saving path for the downloaded files can be set in the System Configuration interface. See *Chapter 7.2 File Saving Path Configuration.*

Event playback

Play back the record files of event type.

1. Go to Event Search interface and select an event type: motion or alarm input.



2. Select a camera in the group and specify a start time, and then click Search button.
3. Select a window, and double-click a video file from the search results list to play.

Note:

- Event playback function is only available for NVR/DVR which support event recording.
- Make sure to import all the channels that you wish to play back in **Import Camera** panel.
- It is also required to enable continuous recording on all the alarm/motion-triggered channels before event playback.

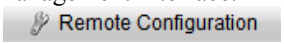
4.3 Remote Device Management and Configuration

The remote configuration and management for the connected devices are provided. You can configure the parameters for the basic settings, the image and the network transmission of the device.

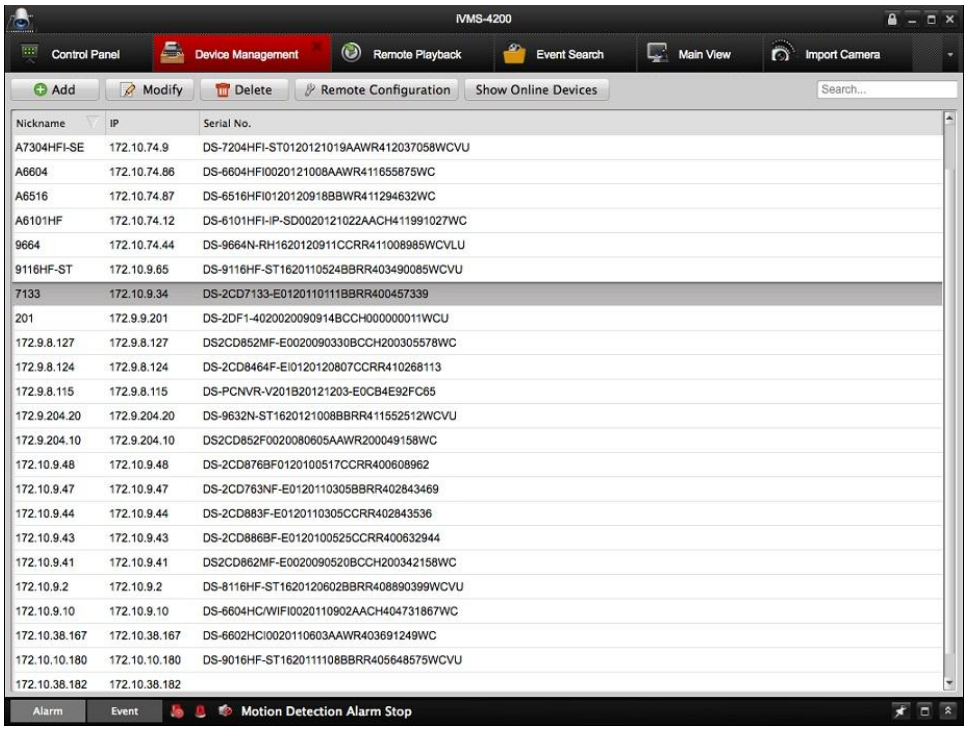
Note: For different devices the remote configuration interface are different. In this section, we take the remote configuration interface of the DS-9000HFI-ST DVR as an example.

Steps:

1. Click

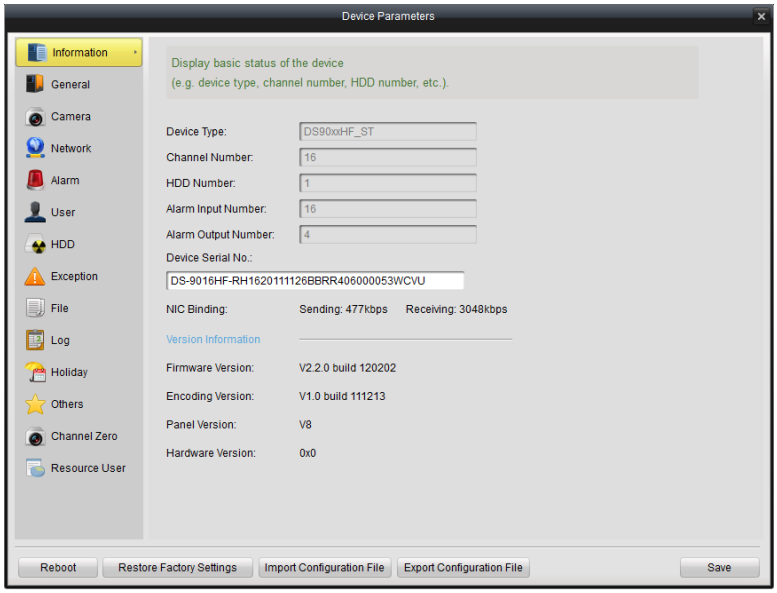
icon on control panel to enter device management interface.
2. Select the device you want to configure, and click 

button to enter the device management interface. You can also enter the device management interface by clicking the Remote Configuration button in Import Camera interface.



4.3.1 Basic Information

On the Information page, you can check the basic information of the device, including device type, total channel number, HDD number, physical Alarm I/O number, Device Serial Number, and version information.



4.3.2 General Settings

On the general settings page, you can set the basic parameters of the device.

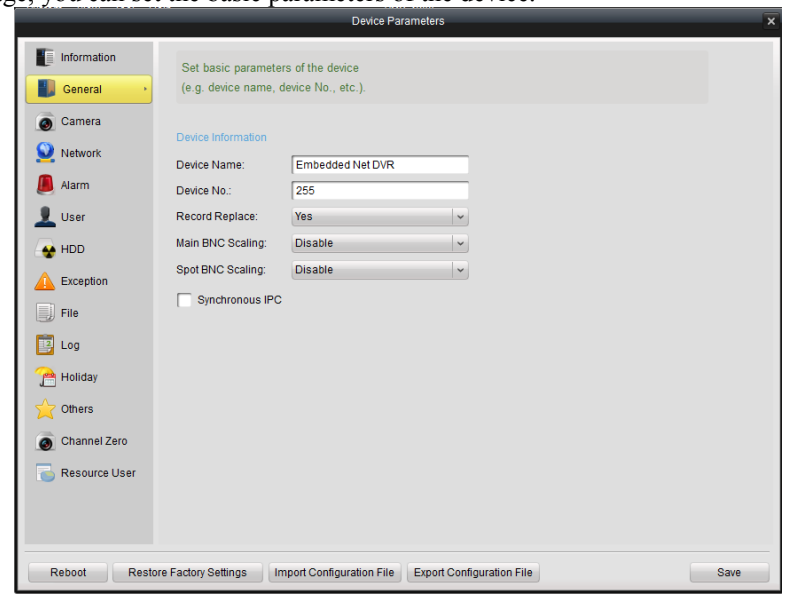
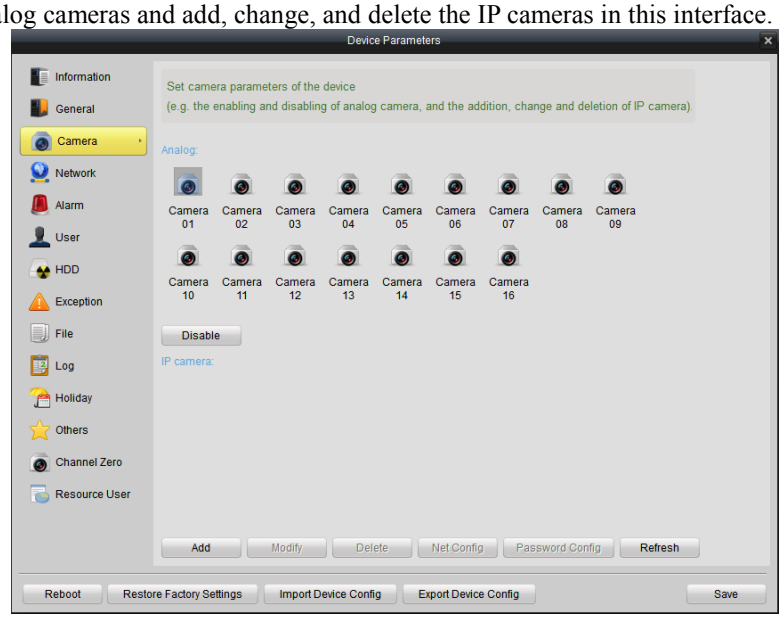


Table. General Parameter Descriptions

Parameter	**Description**
Device Name	Define the name of the device, and it will be displayed on the device list of the client
Device No.	Device number for remote control
Record Replace	Overwrite HDDs when HDDs are full
Main BNC Scaling	Scale image display on the main BNC output
Spot BNC Scaling	Scale image display on the spot BNC output

4.3.3 Camera Management

If the managed device is a DVR/NVR with multiple cameras connected, you can find the camera management page. You can enable and disable the analog cameras and add, change, and delete the IP cameras in this interface.



4.3.4 Network Settings

On the network settings page, you can configure network parameters of the device. Two tabs are available for general and advanced settings.

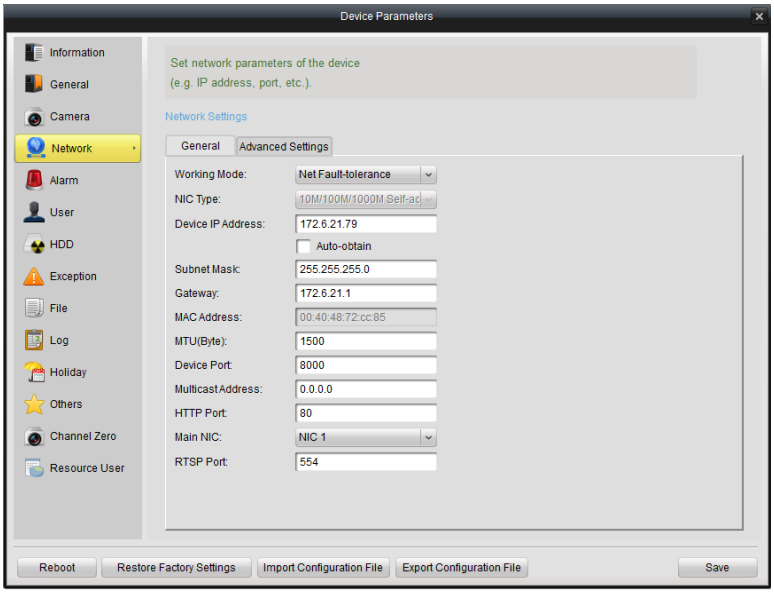


Table. General Network Settings Descriptions

Parameter	Description
Working Mode	Set working mode as Net Fault-tolerance, Load Balance or Dual-NIC

	Settings for DVRs/NVRs (Only available for the devices with dual-NIC interface)
NIC Type	NIC types of the device
Device IP Address	IP address of the device
Subnet Mask	Sub net mask IP for the device
Gateway	Default gateway IP for the device
MAC Address	Mac address of the device; this is a read-only field
MTU(Byte)	The maximum transport unit; the default value is 1500
Device Port	Network port of the device, the default port number is 8000
Multicast Address	Multicast address of the device. Please leave this field empty if multicast is not required
HTTP Port	Web servicer port; the default port number is 80
Main NIC	Set the main NIC for DVRs/NVRs.(Only applicable for the devices with dual-NIC interface)
RTSP Port	Real time streaming protocol port; the default port is 554

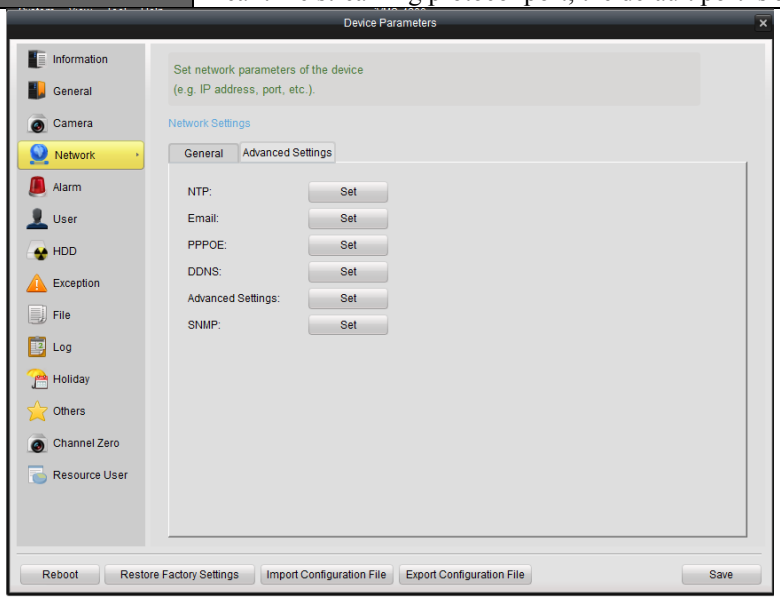


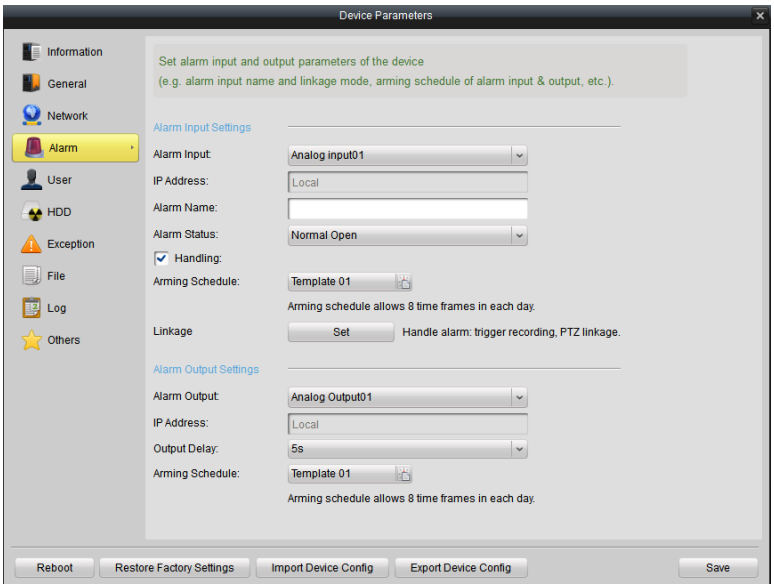
Table. Advanced Network Settings Descriptions

Parameter	Description
NTP	Set server, port, interval and time for NTP time synchronization.
Email	Email account settings for the device
PPPOE	Set DDNS address, username and password for PPPOE
DDNS	Set protocol type, server, port, account and domain for DDNS
Advanced Settings	Configure DNS server addresses, alarm host IPs and ports.
Wifi	Configure wireless networking related parameters
SNMP	Set SNMP version, read/write community and trap address.

Note: You can click each **Set** button for the advanced settings.

4.3.5 Alarm Settings

On the alarm parameter page, you can configure alarm I/O and linkage actions for the device.



Alarm input parameters description

Parameter	**Description**
Alarm Input	Select an alarm input channel for configuration
IP Address	IP address of the digital alarm input. "Local" stands for the hard-wired alarm input interface on the device. This is a read-only field.
Alarm Name	Define a name for the alarm input channel
Alarm Status	"Normal Open" stands for normally open status and "Normal Closed" stands for normally closed status.
Handling	Check the checkbox to activate alarm linked action settings
Arming Schedule	Set the time schedule to handle the alarm triggered actions. The schedule template can be configured in **Schedule** settings page of **Camera Settings**.
Linkage	Check the alarm actions which are required to be activated when the alarm input triggered, and select corresponding channel number if required.

Alarm Output Parameter Descriptions

Parameter	Description
Alarm Output	Select an alarm output channel for configuration
IP Address	IP address of the digital alarm output. "Local" stands for the hard-wired alarm input interface on the device. This is a read-only field.
Output Delay	Select the delay duration for the alarm output
Arming Schedule	Set the time schedule to handle the alarm output. The schedule template can be configured in **Schedule** settings page of **Camera**

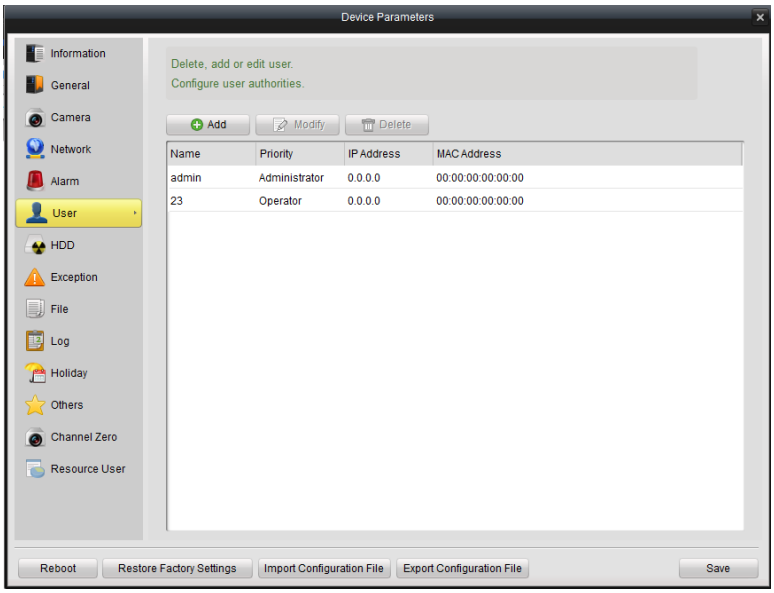
	Settings. (Please refer to Section 5.4.3 for details)
Linkage	Check the alarm actions which are required to be activated when the alarm input triggered, and select corresponding channel number if required.

4.3.6 User Management

Purpose:

You can also add or delete users for the connected device.

In the user management page, you can create/delete user accounts and configure permissions for each user account.

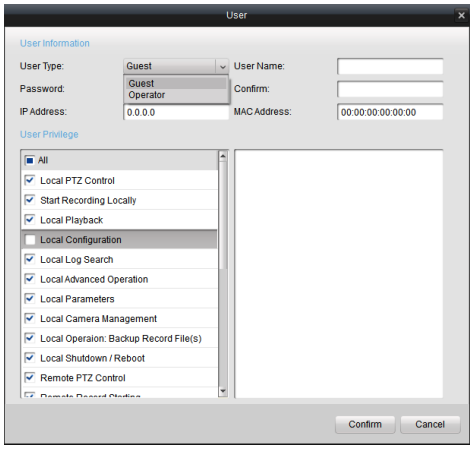


To add a user account:

Steps:

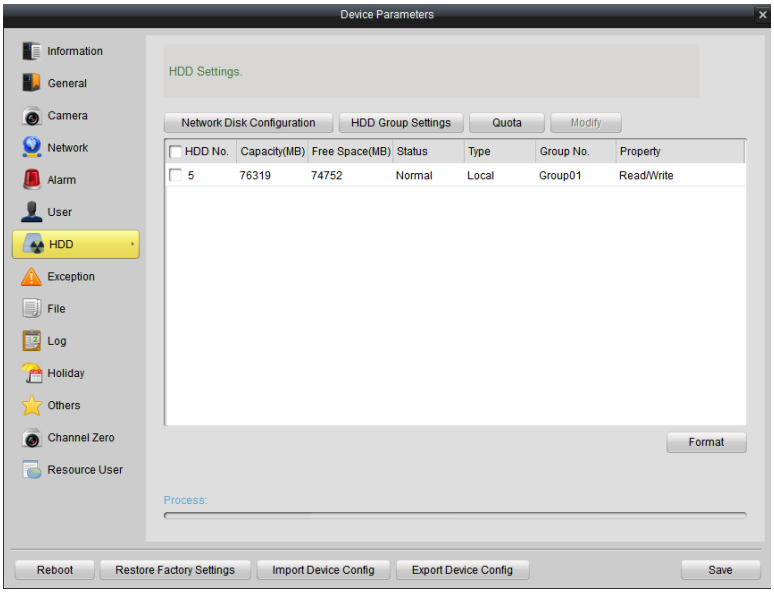
1. Click the Add icon on user management interface.
2. Choose user type (Guest/Operator), enter username and password.
3. Grant the account privileges to this device.
4. Click Confirm to finish.

The created user accounts will be listed in the user list with basic information.



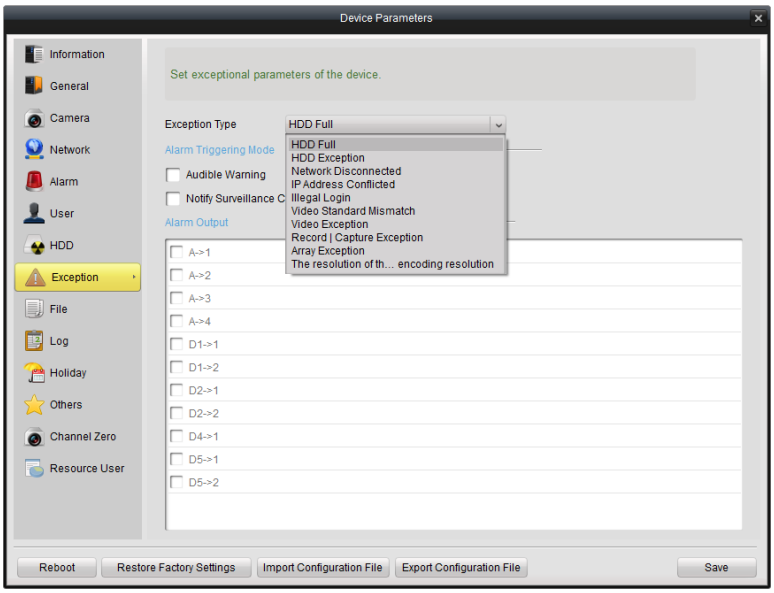
4.3.7 HDD Settings

On the HDD settings page, all the HDD installed on the device are listed with basic information. You can configure network disk, HDD groups ,modify the information or format the disks.



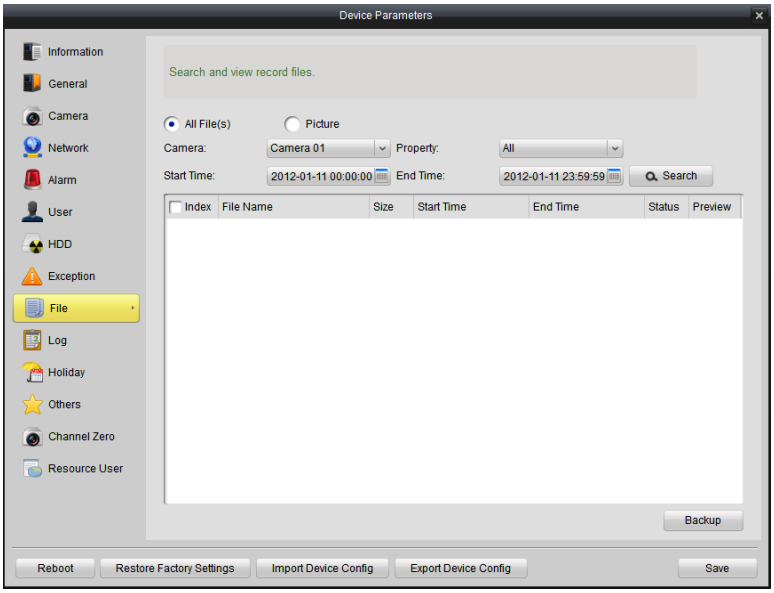
4.3.8 Exception Settings

In exception settings interface, you can select the exception type, and check the linkage actions accordingly under Alarm Triggering Mode section and select the channel number in Alarm Output section. Different linkage actions can be configured for different exception type.

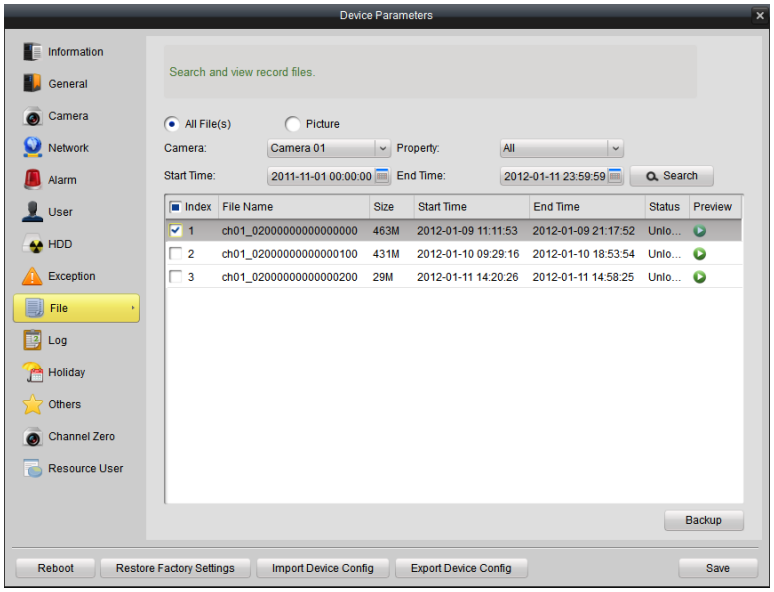


4.3.9 File Management

On the file management page, you can search and view the record files of the device. Select the camera number, file property (all, locked, or unlocked), define the start and end time of the record files, and then click Search. The matched record files will be listed accordingly.



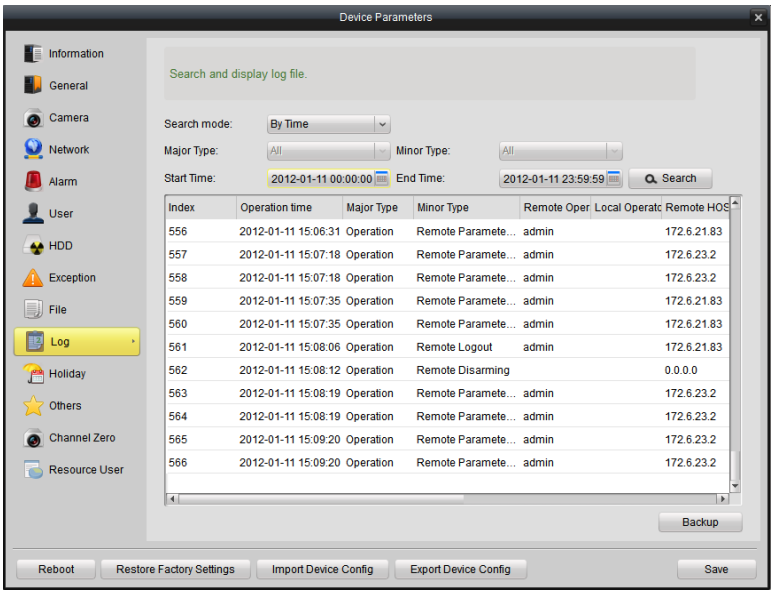
If the device supports remote backup function, you can also select files and click Backup to back up all the selected record files.



Captured pictures and record files stored on local devices can also be searched, played back and backed up. Picture types include motion detection, alarm, continuous capture and etc.

4.3.10 Log Management

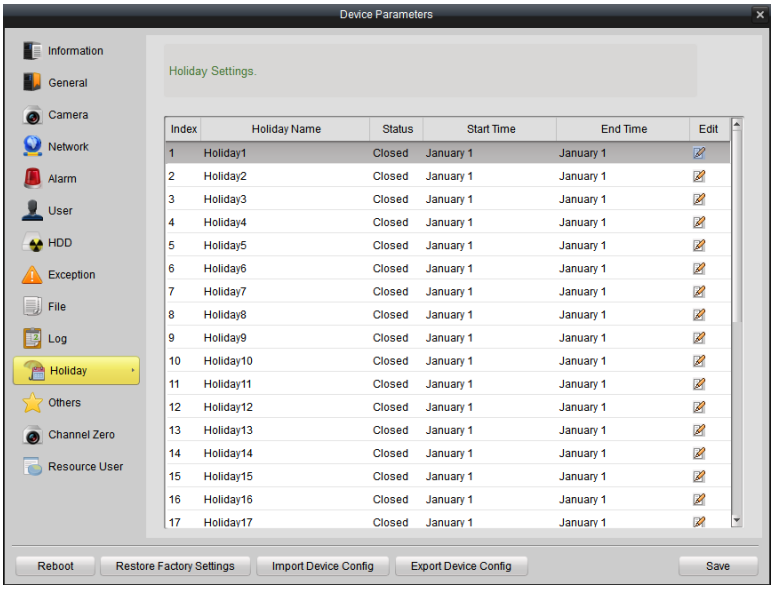
You can query log files of the connected device in log management interface. Select the search mode, major type and minor type, define the start and end time of the log files, and then click Search. The log will be listed accordingly.



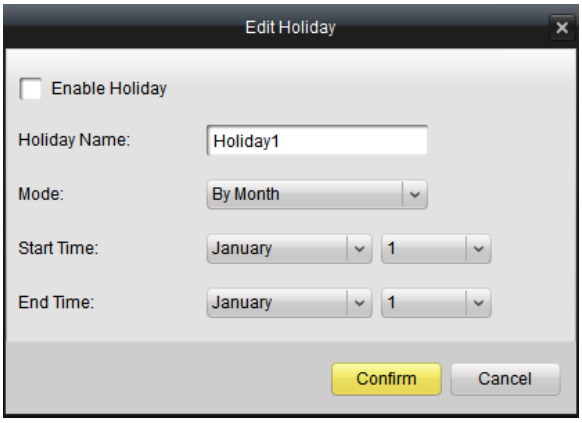
If the device supports remote backup function, you can also select logs and click Backup to back up all the selected log files

4.3.11 Holiday Settings

Note: This chapter is only for the remote device with holiday schedule function.
In the holiday setting interface, you can check the holiday settings and edit the holiday schedule.

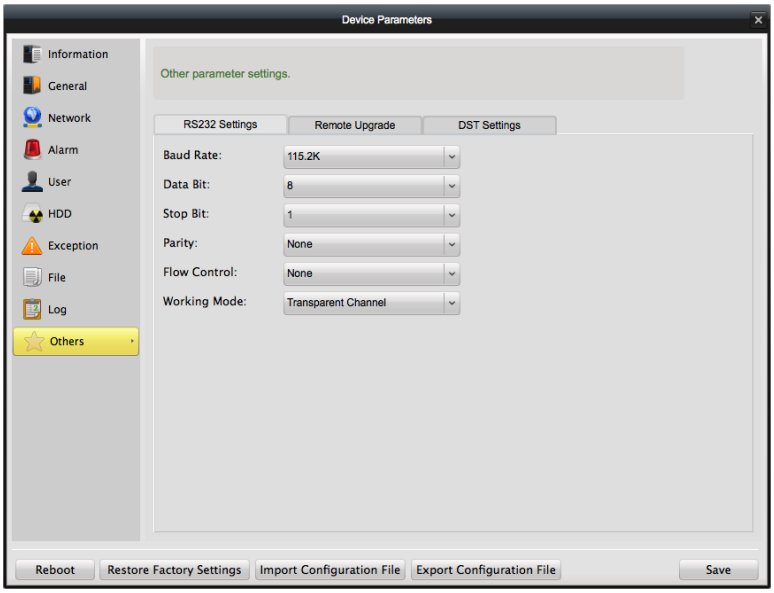


To edit the holiday schedule, click the Edit icon, set the start and end time for the holiday and click Confirm.

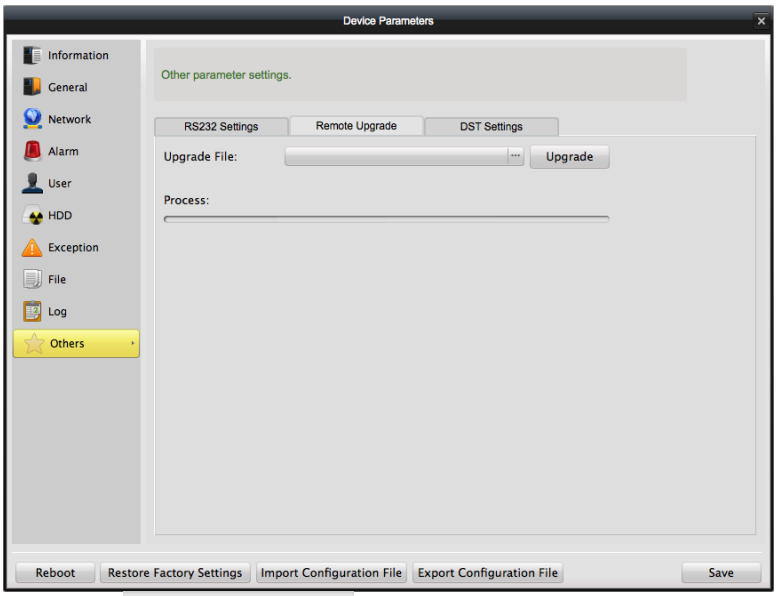


4.3.12 Other Settings (RS-232 Settings, Remote Upgrade and DST Settings)

In this interface, you can set the RS232 information and remotely upgrade the device.

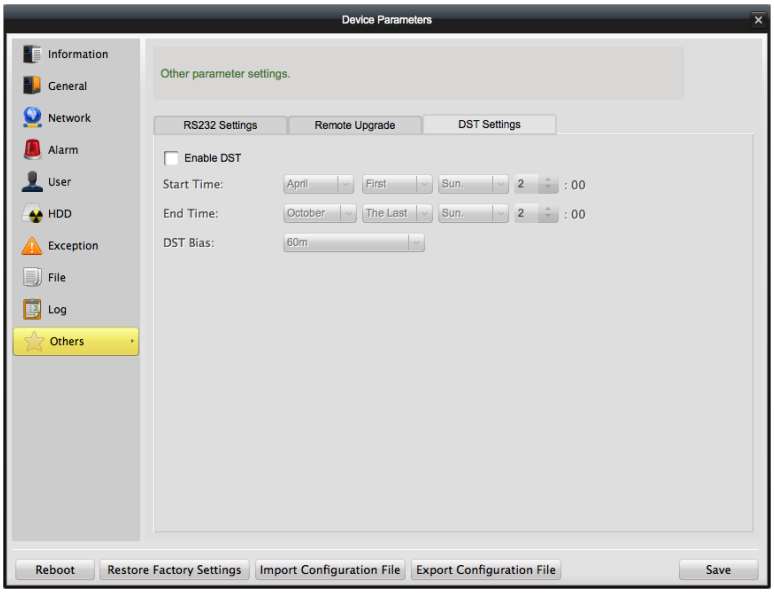


For remote upgrade function, click button to browse and select the upgrade file, and click Upgrade to start upgrading. The upgrade process will be displayed and a reboot is required when it's finished.



To enable the DST function, click the

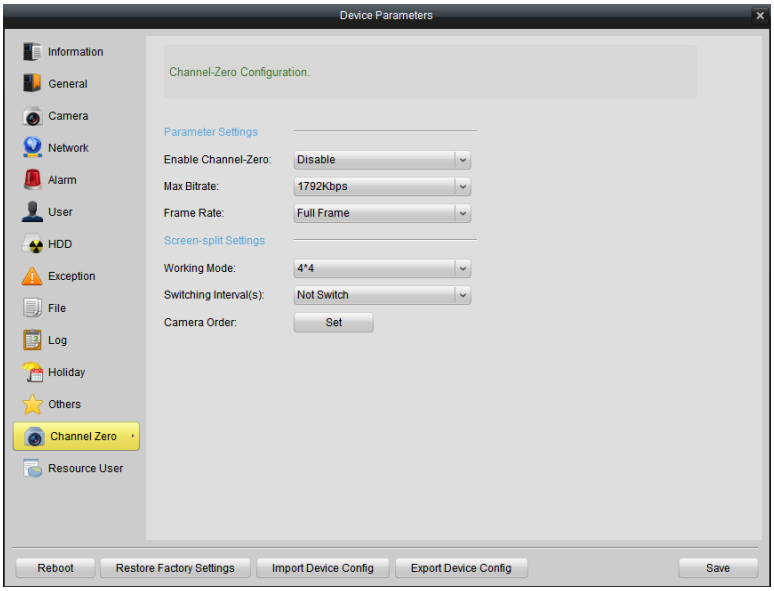
button and enable DST.



4.3.13 Channel-zero Settings

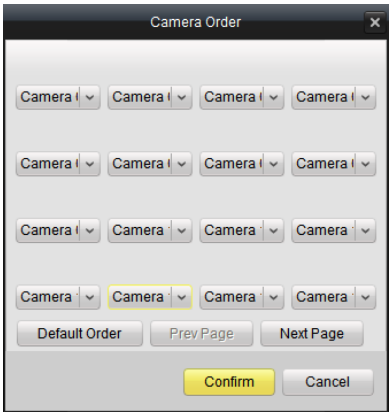
Channel-zero is a feature designed for DVRs/NVRs to decrease the required bandwidth when remotely viewing several channels at a time by web browser or remote client software.

Note: This function must be supported by the device connected.



On this page, you can enable/disable channel-zero coding, set the encoding parameters(max bitrate and frame rate), screening-split settings (working mode and switching intervals) and camera order for displaying.

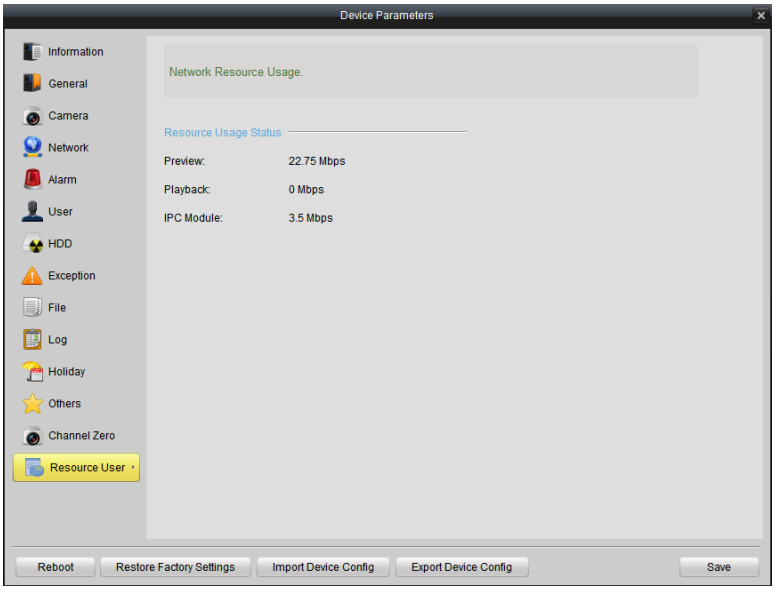
Note: The Max. Bitrate and Frame Rate should be set according to the real network condition.



4.3.14 Resource Usage

The resource usage tab is only valid for some DVRs or NVRs.

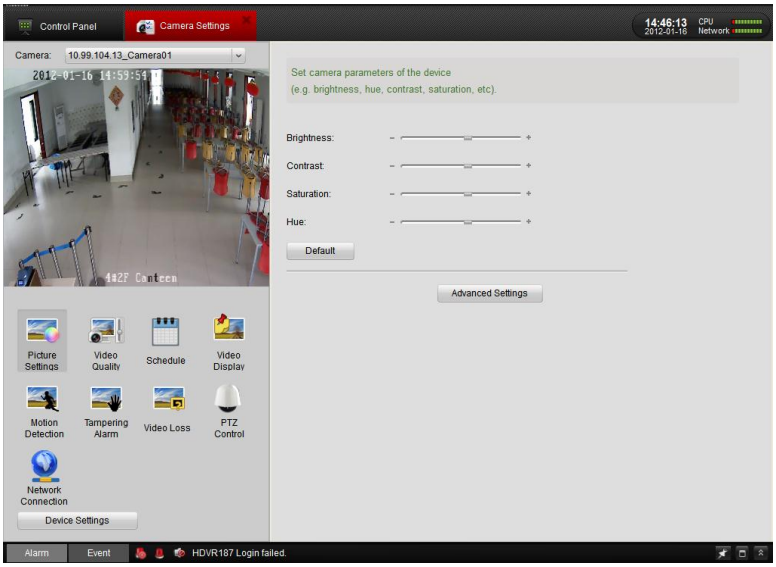
In this interface, you find the network resource usage status, including preview, playback and IPC module.



4.4 Camera Settings

Steps:

1. Click Camera Settings icon on control panel to enter the camera setting interface.



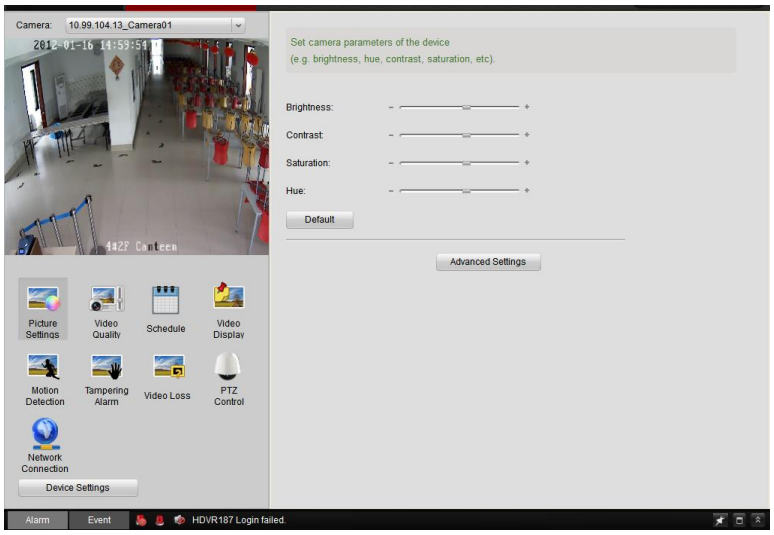
2. Select a camera from the dropdown list in the upper left corner of the interface. The live image of the camera will be displayed on the screen below.
3. Click the icons in the bottom left area to enter each configuration pages. You can also click Device Settings icon to manage the device. Please refer to section 4.3 for Device Management.

   Description of the Camera Setting interface:

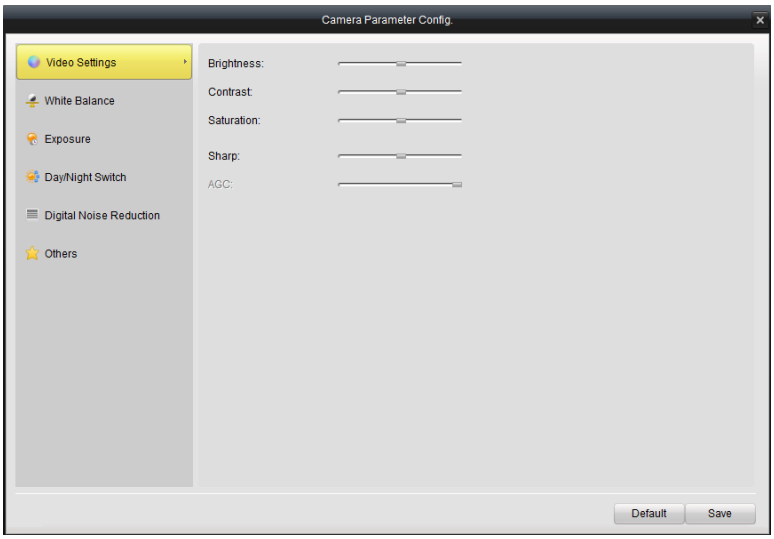
Icons	Description
Picture Settings	Set camera parameters of the device
Video Quality	Set image quality, resolution and other encoding parameters of the camera
Schedule	Set recording schedule of the camera
Video Display	Set camera display parameter. E.g. OSD and privacy area
Motion Detection	Set motion detection parameters of the camera
Tampering Alarm	Set tampering alarm parameters of the camera
Video Loss	Set video loss alarm parameters of the camera. E.g. arming schedule, linkage mode, and etc.
PTZ Control	Set PTZ parameters. E.g. baud rate, protocol and etc.
Network Connection	Set connection parameters of the camera

4.4.1 Picture Settings

The quality of the picture can be configured in the picture settings interface. You can adjust the brightness, contrast, saturation and hue of the video image.



Click the Advanced Settings icon to configure parameters below.

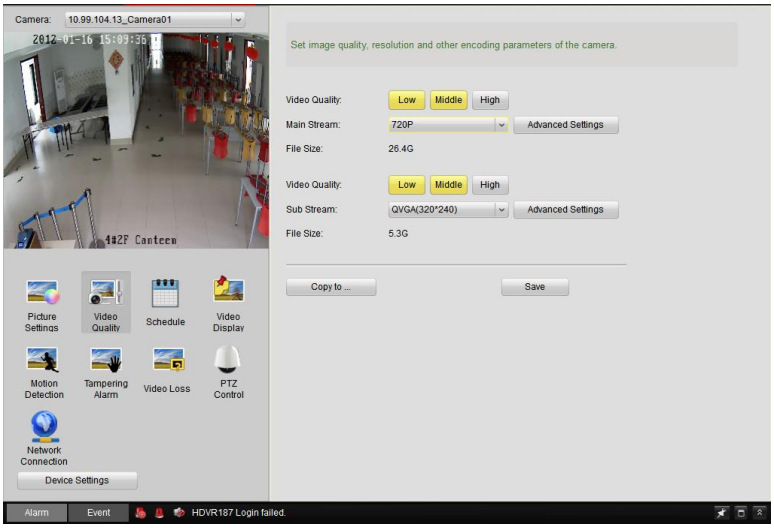


Picture Advanced Setting Descriptions

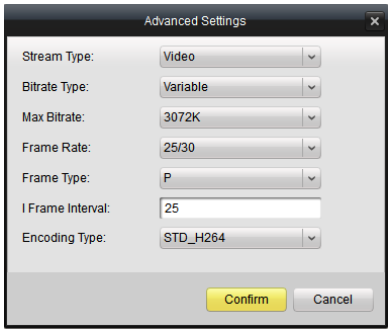
Parameter	**Description**
Video Settings	Configure the brightness, contrast, saturation, hue, sharpness and AGC for the video.
White Balance	Configure the white balance.
Exposure	Configure the exposure time and iris type (auto/manual)
Day/Night Switch	Configure the day/night mode and define the filtering time.

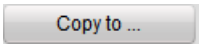
Others	Configure parameters including flicker filter, mirror, PTZ and local output.

4.4.2 Video Quality

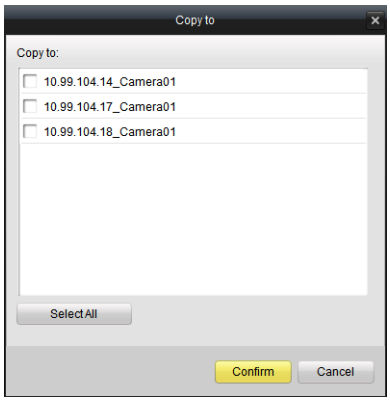


On this page, you can configure parameters for main stream and sub-stream separately. You can set video quality and resolution on the main interface. To configure steam type, bitrate type, max bitrate, frame rate, frame type, frame interval and encoding type, please click Advanced Settings button to enter advanced setting interface.

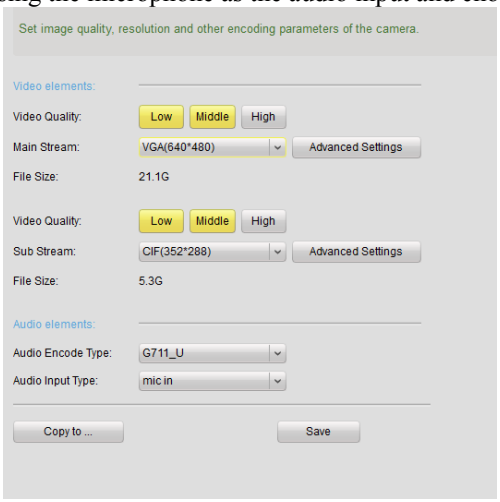


Click 

icon, you can copy the settings to other cameras within the same group.



For the direct connected IP cameras, the audio parameters can also be set. Choose the audio encoding type and the audio input type. You can choose mic in for using the microphone as the audio input and choose the line in for using pickup.

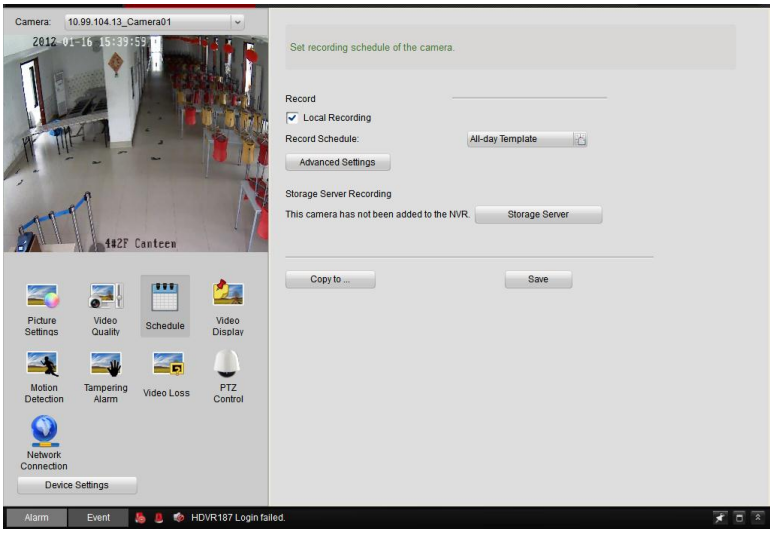


4.4.3 Record Schedule

You can set recording schedules parameters to enable the automatic recording in certain time duration.

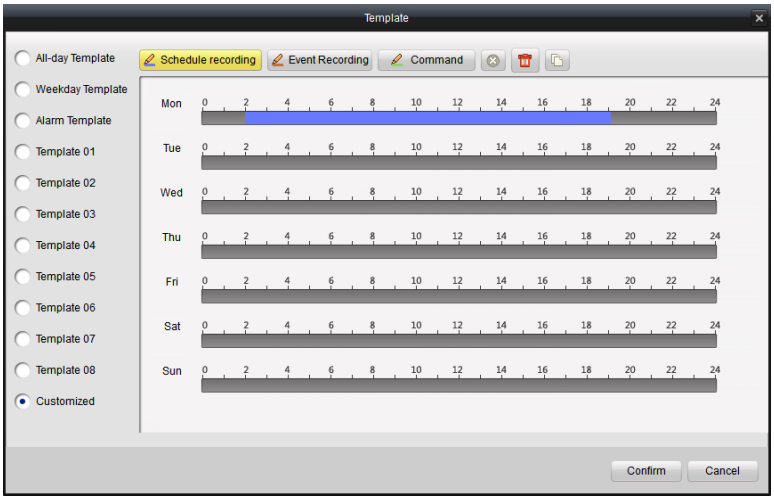
Note: Parameters in the Record section are set for the camera you've selected. For Storage Server Recording parameters, you need to add a storage server first. To assign an Storage Server for the recording schedule, please click Storage Server button.

.



You can follow below steps to set the record schedule templates.

1. Click the template selection button of Record Schedule to enter template configuration interface.
2. You can choose pre-designed All-day Template, Weekday Template or Alarm Template, or customize your own record template.
3. Choose one of undefined templates or click Customized to activate the edit mode. Click Schedule Recording, Event Recording or Command for different recording types. Drag the mouse on the time bar to define the record time window for each day.

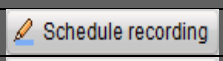
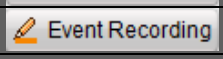
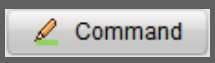


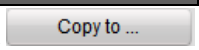
4. Click the colored bar to display the specific time schedule. You can also shorten or extend the time window by amending the length of the bar.

For more details of record schedule, please refer to the table below.

Record Schedule

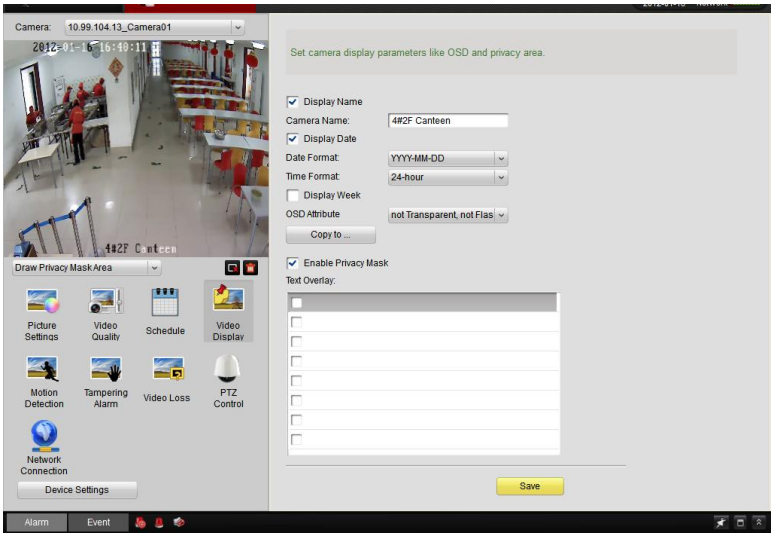
Icons	Description
	Delete the selected schedule
	Clear all the record schedules of the selected template

	Copy the selected schedule section to other day (s)
	Normal scheduled recording. The schedule time bar is blue.
	Schedule recording for events. The schedule time bar is yellow
	Schedule recording triggered by commands. The schedule time bar is green. (Only available for ATM DVR.)

You can also click  icon to copy the settings to other cameras within the same group.

4.4.4 Video Display

On the video display page, you can define the following parameters for the camera.



Video Display Parameters

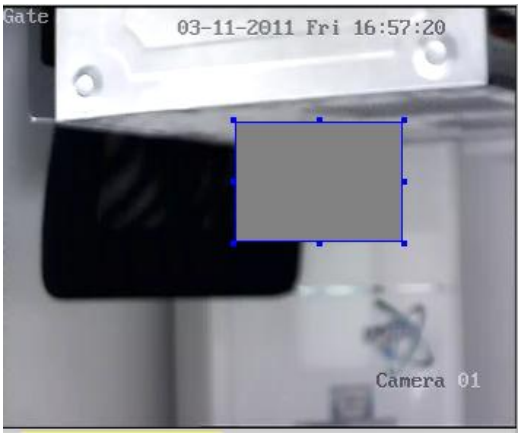
Parameter	Description
Display Name	The camera name displayed on the live video
Display Date	Display the date on the live video and choose the date format and time format
Display week	Display the week on the live video.
Enable Privacy Mask	Enable privacy mask function on the live video. You can drag the mouse of the live video to set the mask.
Text Overlay	Edit user-defined text to be displayed on the live video.

You can set privacy masks, configure OSD and define the text locations on the live video. Please follow steps below to enable the functions.

To draw a privacy mask:

1. Check the Enable Privacy Mask checkbox.

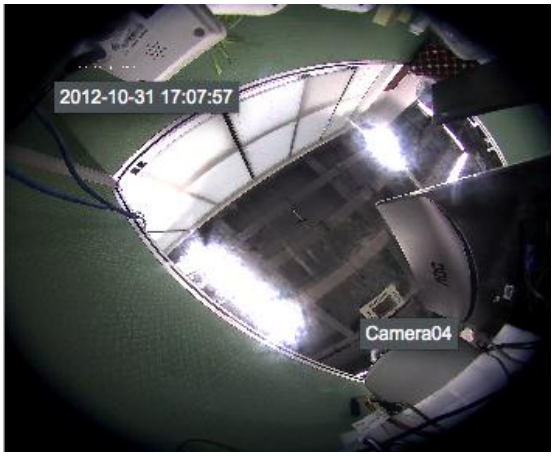
2. Drag the mouse to draw a square on the live video. You can move it to change the location or change the size by enlarging or reducing the area.



3. You can also click Delete or Delete All icon under the view to delete the privacy mask.
4. Click Save to finish.

To configure the OSD and text:

1. To define the text overlay, check one of the text checkboxes and enter the content. Click Save. You can see the text shown in the left upper corner of the live view area.
2. Drag the mouse to move the OSD or the defined text window to change the location on the live video.

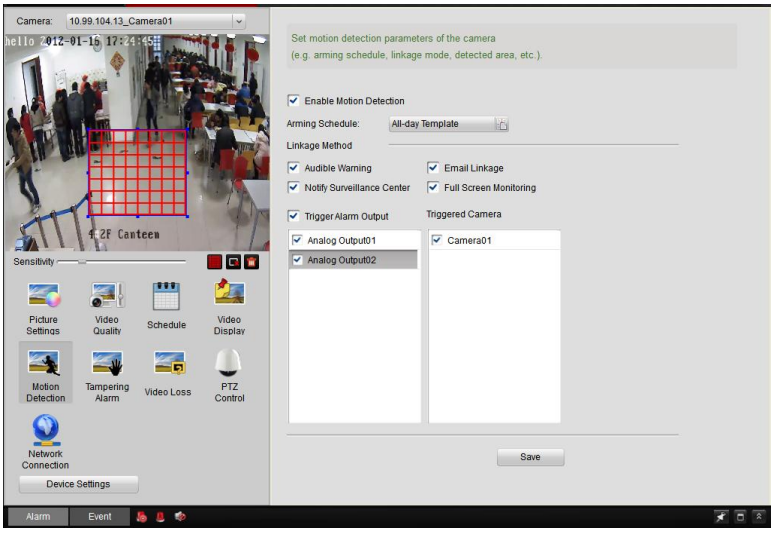


3. Click Save.

Note: You can configure up to 4 privacy masks.

4.4.5 Motion Detection

You can configure motion detection parameters in Motion Detection interface.



Steps:

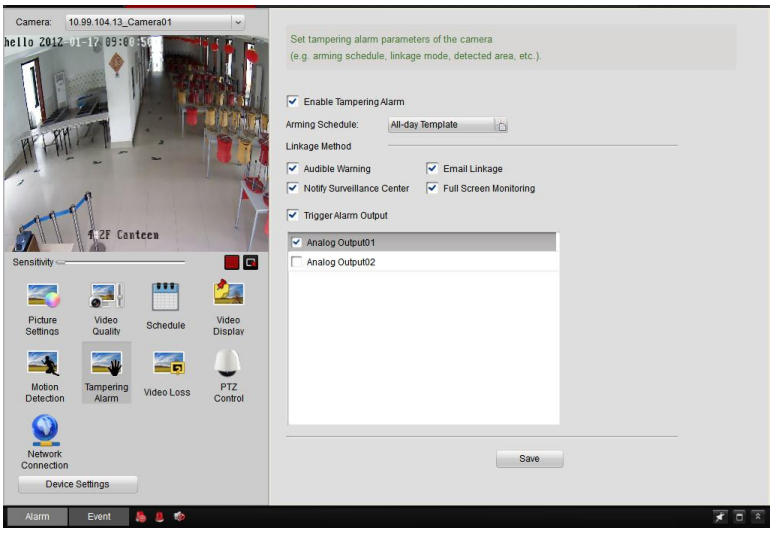
1. Check Enable Motion Detection checkbox to enable the function.
2. Draw the detection area on the video image by dragging the mouse and set the sensitivity on the value bar under the live view.
3. You can click the icon to set the whole video area as detection area; click the icon to delete the selected detection area; or click the icon to delete all the motion detection areas.
4. Click the template selection button of Arming Schedule to setup the schedule for motion detection. The steps are similar to record schedule configuration. You can refer to section 5.4.3 for more information.
5. Configure linkage methods for motion detection. Please refer to Table 9.4 for linkage method details.
6. Click Save to save the changes.

Linkage Method for Motion Detection

Parameter	Description
Audible Warning	Trigger audible warning on the device when motion detection is triggered.
Notify Surveillance Center	Upload alarm information to the CMS software when motion detection is triggered.
Trigger Alarm Output	Activate one or multiple channels of alarm output when motion detection is triggered. Users need to specify the corresponding alarm output channel (s) in Alarm Output Settings. Please refer to section 9.2.5 for Alarm Settings
Email Linkage	Send out an Email when motion detection is triggered. Please refer to section 9.2.4 for emails parameter settings
Full Screen Monitoring	Switch to full screen to monitor the motion detection video when motion detection is triggered.

4.4.6 Tampering Alarm

Purpose:
Tampering Alarm is an alarm triggered when the camera is covered and the monitored area can't be seen. You can configure tempering alarm parameters in this interface.



Steps:

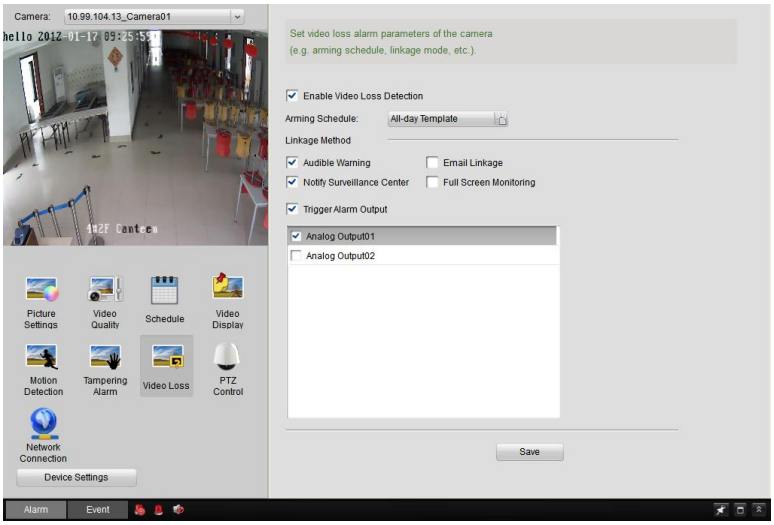
1. Check Enable Tampering Alarm checkbox to enable the function.
2. Draw the tampering detection area on the video image by dragging the mouse and set the sensitivity on the value bar under the live view.
3. You can click the icon to set the whole video area as detection area and click the icon to delete the selected detection area.
4. Click the template selection button of Arming Schedule to setup the schedule for tempering alarm. The steps are similar to record schedule configuration. You can refer to section 5.4.3 for more information.
5. Configure linkage methods for tampering alarm. Please refer to Table 9.5 for linkage method details.
6. Click Save to save the changes.

Linkage Method for Tampering Alarm

Parameter	Description
Audible Warning	Trigger audible warning on the device when alarm is triggered.
Notify Surveillance Center	Upload alarm information to the remote management software when alarm is triggered.
Trigger Alarm Output	Activate one or multiple channels of alarm output when alarm is triggered. You need to specify the corresponding alarm output channel (s) in Alarm Output Settings.
Email Linkage	Send out an Email when tampering alarm is triggered. Please refer to section 8.4 for emails parameter settings.
Full Screen Monitoring	Switch to full screen to monitor video when alarm is triggered.

4.4.7 Video Loss Detection

Video Loss detection is used to detect the disconnection of the channels. You can configure video loss alarm parameters of the camera in Video Loss interface.



Steps:

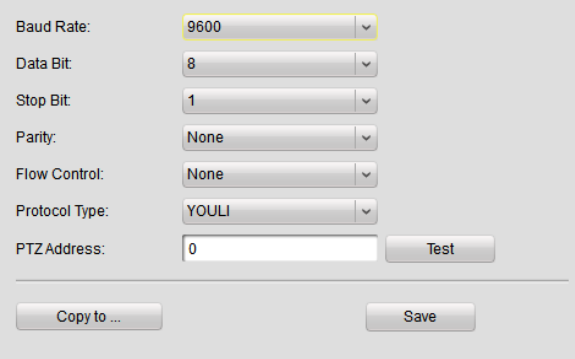
1. Check Enable Video Loss Detection checkbox to enable the function.
2. Click the template selection button of Arming Schedule to setup the schedule for video loss detection. The steps are similar to record schedule configuration. You can refer to section 5.4.3 for more information.
3. Configure linkage methods for video loss detection. Please refer to Table 9.6 for linkage method details.
4. Click Save to save the changes.

Linkage Method for Video Loss Detection

Parameter	Description
Audible Warning	Trigger audible warning on the device when alarm is triggered.
Notify Surveillance Center	Upload alarm information to the **CMS software** when alarm is triggered.
Trigger Alarm Output	Activate one or multiple channels of alarm output when alarm is triggered. Users need to specify the corresponding alarm output channel (s) in Alarm Output Settings. Please refer to section 9.2.5 for Alarm Settings
Email Linkage	Send out an Email when tampering alarm is triggered.
Full Screen Monitoring	Switch to full screen to monitor video when alarm is triggered.

4.4.8 PTZ Parameters Settings

On the PTZ parameters configuration page, you can specify the PTZ connection parameters, such as baud rate, data bit, stop bits, parity, flow control, PTZ protocol and PTZ address.

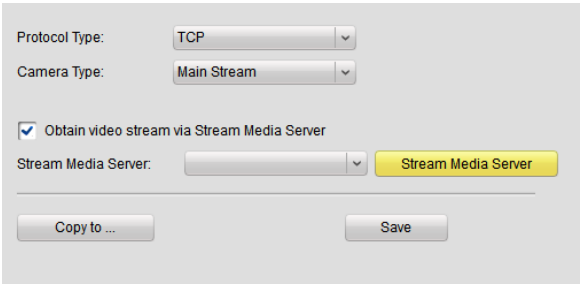


Note: The PTZ parameters should be consistent with the settings of the PTZ on the DVR or IP camera side to ensure valid PTZ control.

Click Save to save the changes, you can also click Copy to ... icon to copy the settings to other cameras within the same group.

4.4.9 Configuring Network Connection

On the Network Connection configuration page, you can specify the protocol, choose the stream type of the camera, and configure stream media server.



To configure the steam media server, check Obtain Video Stream via Stream Media Server checkbox .

For the detailed configuration of the stream media server, see chapter *5.1 Adding a Stream Media Server*.

Click Save to save the changes, you can also click Copy to ... icon to copy the settings to other cameras within the same group.

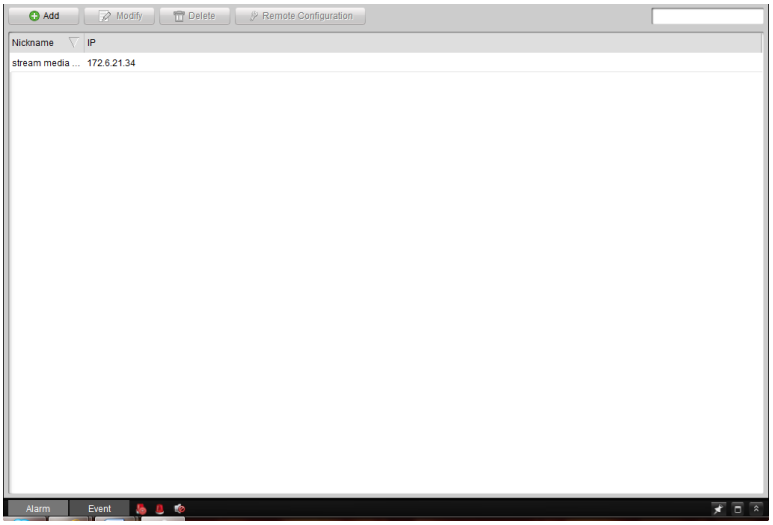
Chapter 5. Forwarding Video Stream from Stream Media Server

5.1 Adding a Stream Media Server

When there are too many users want to get a remote access to the devices to get the live view or management, you can add the stream media server and get the video data stream from the stream media server, thus lower the load of the device.

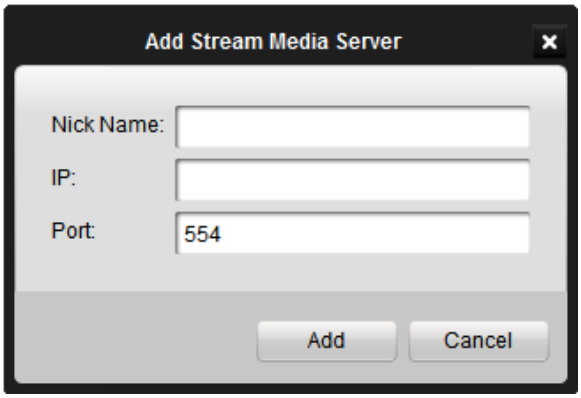
Steps:

1. Click to enter the Stream Media Server configuration interface.



2. Click

, the dialog box pops up.



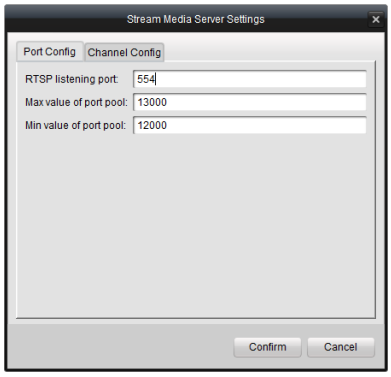
3. Create a nick Name, enter IP address of the PC on which the stream media server is running, and Port number (the Port 554 is the default RTSP port number), and then click **Add** to save it.

Note: When you install the iVMS-4200, you can install the stream media server in your computer too, you can also run the stream media server on the same computer on which you run the iVMS-4200.

5.2 Forwarding Video Stream via the Stream Media Server

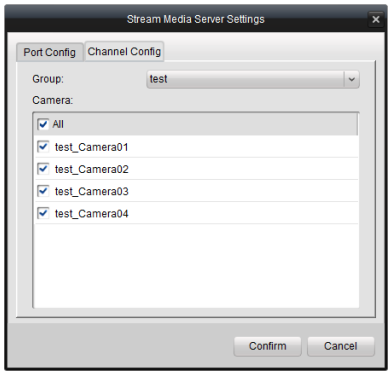
Click Remote Configuration to configure the stream media server you selected.

- The Port Config tab:



The **RTSP Listening port** is 554 by default.
The maximum and minimum value of the **port pool** is 13000 and 12000 respectively.
In the Channel Config. tab, you can select and choose the device which you want to add to the stream media server and get stream form the media server.

- The Channel Config. tab:



1. Select the camera group which you want to add to the stream media server.
2. Choose the cameras to add by check the checkbox or check the All to add all the cameras in the group to the stream media server.
3. Click Confirm to confirm the settings you made.

After the successful configuration, you can get the data stream from the device via the forwarding of the stream media server.

Chapter 6. Log Management

Purpose:

This chapter explains how to search and backup system logs and open saved local log files in the client.

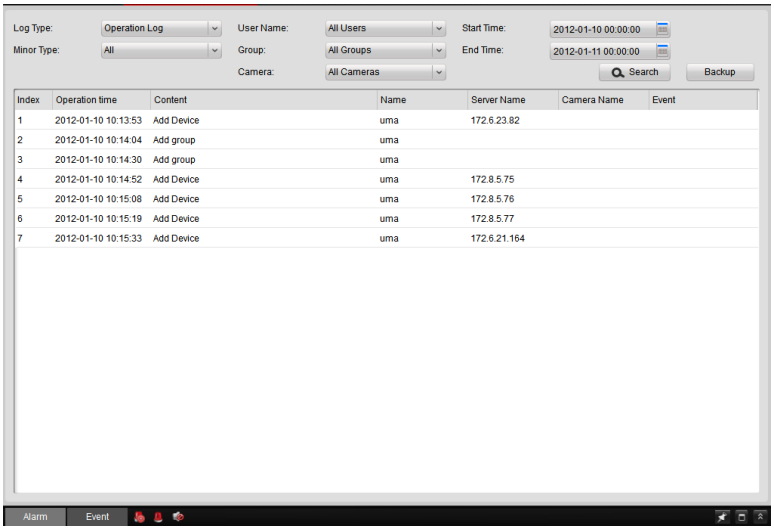
To enter local log management interface, click *Local Log Search* icon on control panel.

6.1 Local Log Search

Steps:

1. Set “Log Type”, “Minor Type’, ”User Name”, “Group”, “Camera” and the time window of the log you intend to search.
2. Click “Search” button.

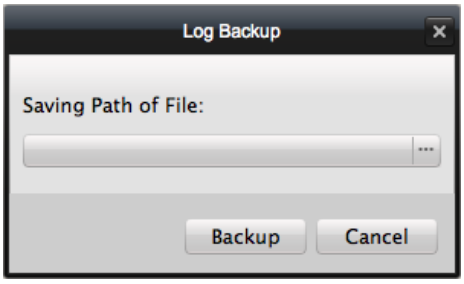
The matched logs will be listed on the display pane.



6.2 Log Backup

Steps:

1. After searched the logs, click “Backup” button.
2. Click ... button to select the saving path on the “Backup Log” dialog box, and define the file name. Click Save and “Backup” buttons.

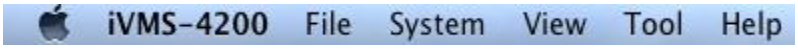


6.3 Opening Log Files

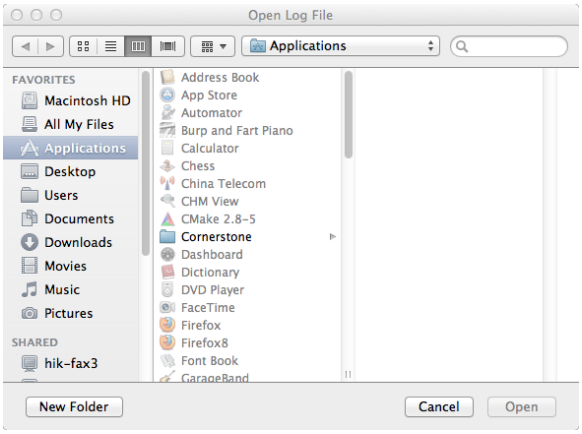
For the log files that have been backed up to local PC, you can open them in this interface for management purpose.

Steps:

1. Navigate to File→ Open Log File from the menu bar.



2. Click ... button to browse the folders where the log files are located.
3. After selecting the log file, click Open to open the log file.

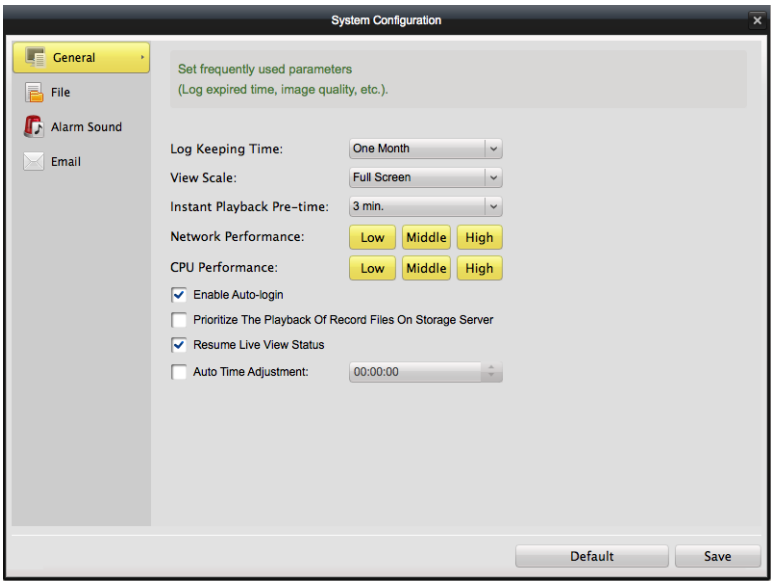


Chapter 7. System Configuration

Purpose:
This chapter includes instructions of general configuration, file saving path configuration, alarm sounds and email configurations for the system. Click "System Configuration" icon on control panel to enter system configuration interface.

7.1 General Configuration

On the General configuration page, you can configure the general settings for the local system.



Parameter	Description
Log Keeping Time	The expiration time of the system logs.
View Scale	It can be set as Full Screen, 4:3 or 16:9.
Instant Playback Time	It can be set as 30s, 1min, 3min, 5min or 10min
Network Performance	It can be set as low, middle, or high.
CPU Performance	It can be set as low, middle, or high.
Enable Auto-login:	Automatically login the software without user account validation.
Prioritize the playback of record files on storage server	Enable record files on storage server priority during playback operation.
Resume Live View Status	Enable resume review option
Auto Time Adjustment	Set the time auto adjust time

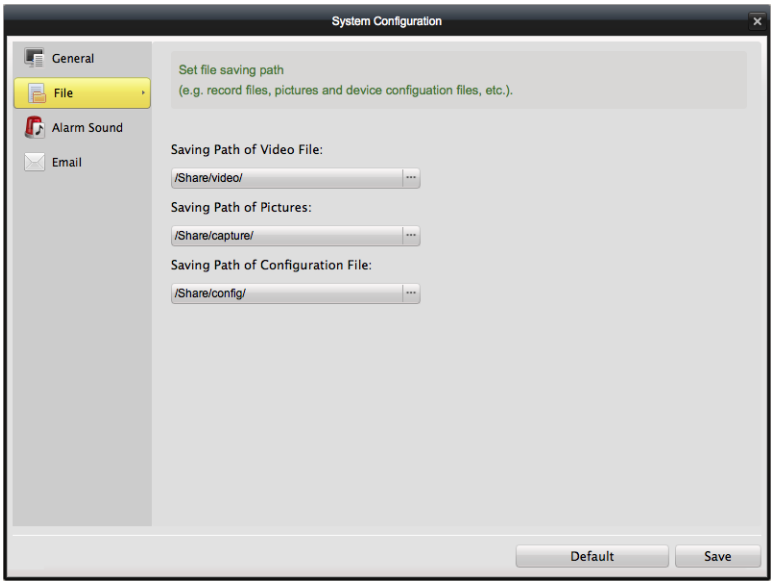
To finish general settings, you can click Save button to save the changes or click "Default" to restore the default settings.

7.2 File Saving Path Configuration

In the File configuration tab, you can set the saving paths to store video files, captured pictures and configuration files.

Steps:

1. Click each ... button to select the saving paths respectively for .video files, pictures and configuration files.
2. Click Save button to save the new settings, or click "Default" to restore default settings.

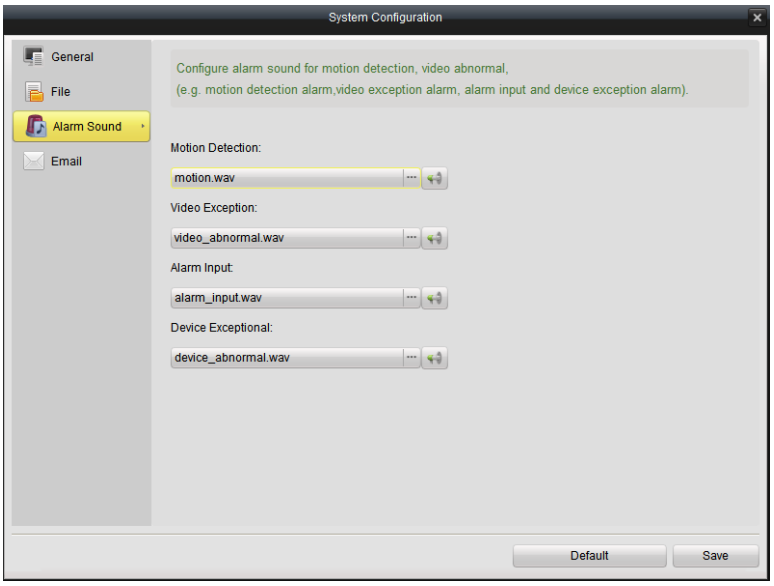


7.3 Alarm Sound Configuration

In the Alarm Sound configuration interface, you can configure audio (.wav) files for alarms of motion detections, video exceptions, alarm inputs and device exceptions.

Steps:

1. Click each button to open the file browser, and select an audio (.wav) file for the selected alarm type.
2. Click the button to listen to the selected audio file.
3. Click Save button to save the new settings, or click "Default" to restore default settings.

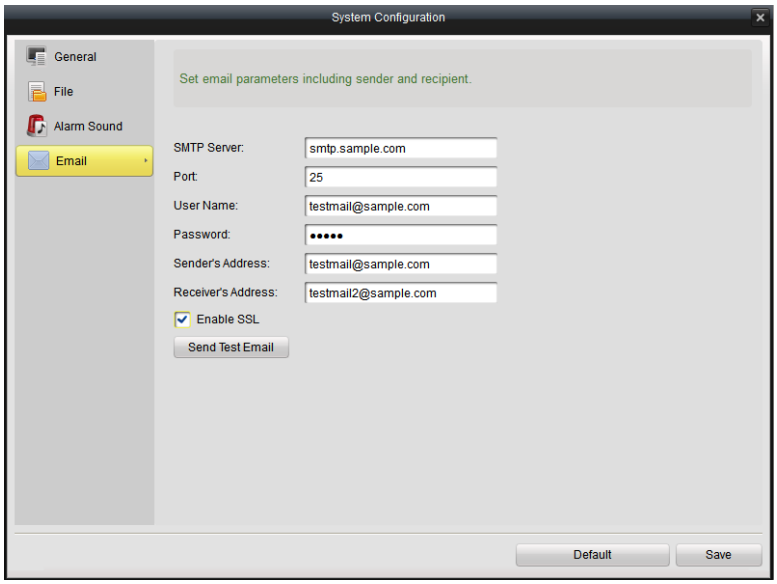


7.4 Email Configuration

In the email configuration interface, you can set the SMTP server, and account information for the alarm actions of the client.

Steps:

1. Enter SMTP server, Port, User Name, Password, Sender's Address and Receiver's Address.
2. Click "Send Test Email" to check email configured successfully.
3. Click Save button to save the new settings, or click "Default" to restore default settings.


System Configuration
General
File
Alarm Sound
Email
Set email parameters including sender and recipient.
SMTP Server:
smtp.sample.com
Port:
25
User Name:
testmail@sample.com
Password:
Sender's Address:
testmail@sample.com
Receiver's Address:
testmail2@sample.com
Enable SSL
Send Test Email
Default
Save

Chapter 8. FAQ

Live View

Symptom:

Failed to get the live view of a certain device

Possible Reasons:

Unstable network or the network performance is not good enough. The device is offline.

Too many accesses to the remote device cause the load of the device too high.

The current user has no permission for live view.

The version of the client software is below the needed version.

Troubleshooting:

Check network status and disable other not in use process on your PC.

Check the device network status.

Restart the device or disable other remote access to the device.

Log in with the admin user and try again.

Download the client software of the newest version.

Recording

Symptom:

Normal recording and the remote recording are confusing.

Troubleshooting:

When we say local recording when we use the client software, it refers to the recording on the PC running the client.

And remote recording refers to the recording action commanded by the client on the device side, which stores the record files in the HDD of the device.

Playback

Symptom:

Failed to download the playback file or the downloading speed is too slow.

Possible Reasons:

Unstable network or the network performance is not good enough.

The NIC type is not compatible.

Too many accesses to the remote device

The current user has no permission for playback.

The version of the client software is below the needed version.

Troubleshooting:

Check network status and disable other not in use process on your PC.

Directly connect the PC running the client to the device to check the compatibility of the NIC card.

Restart the device or disable other remote access to the device.

Log in with the admin user and try again.

Download the client software of the newest version.